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OCEANOGRAPHIC OBSERVATIONS
IN KANE BASIN AND BAFFIN BAY
MAY AND AUGUST-OCTOBER 1969



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REPORT No. 44 CG 373-44

OCEANOGRAPHIC OBSERVATIONS IN KANE BASIN AND BAFFIN BAY MAY AND AUGUST-OCTOBER 1969

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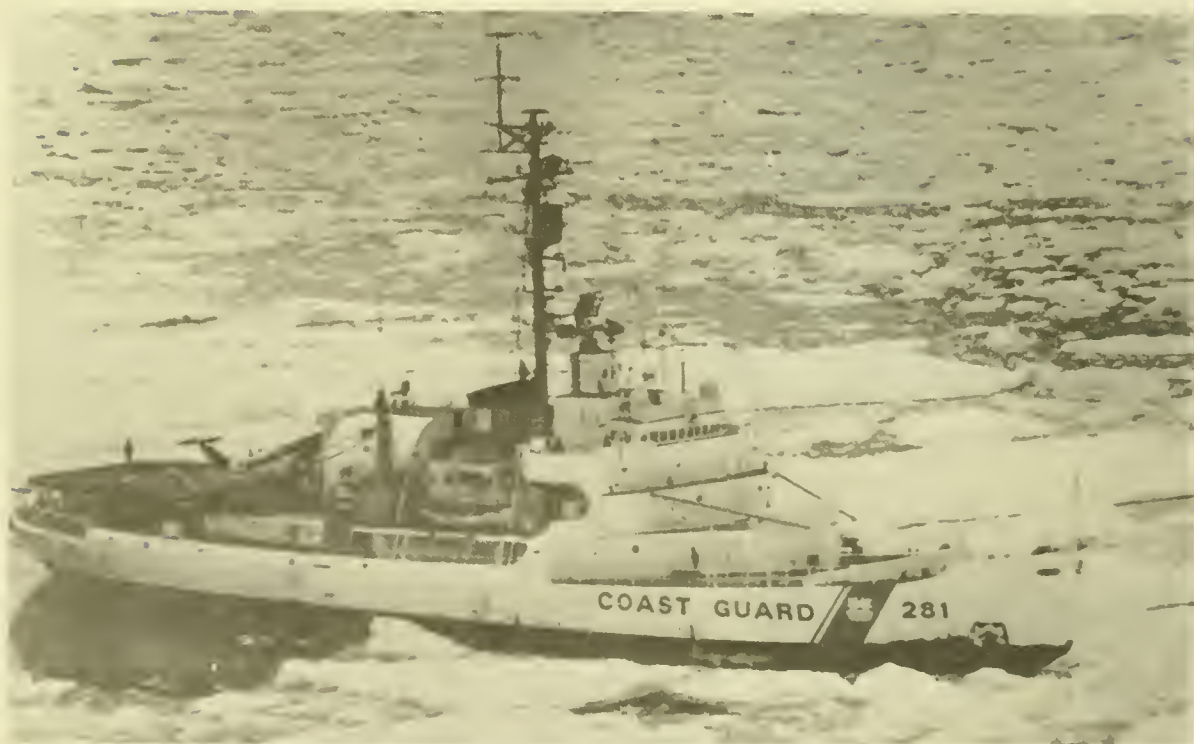
WASHINGTON, D.C.



OCTOBER 1971



USCGC SOUTHWIND (WAGB 280)



USCGC WESTWIND (WAGB 281)

ABSTRACT

Oceanographic conditions in Kane Basin during the spring and in northern Baffin Bay during the late summer and early fall of 1969 are described. Preliminary results of current meter measurements taken through the ice in Kane Basin are discussed. Vertical sections of temperature and salinity are presented and the relationship of these variables to Baffin Bay-North Water, Baffin Bay Deep Water and the general circulation of Baffin Bay is discussed. Analyses of isentropic diagrams and dynamic topography are also presented. Listings of physical and chemical station data are included.

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PREFACE

This report is a presentation of the oceanographic data collected by scientists from the University of Washington and the Coast Guard Oceanographic Unit during cruises on the U.S. Coast Guard icebreakers CGC SOUTHWIND and CGC WESTWIND in Baffin Bay and from a station on the ice in Kane Basin. These cruises and this report are part of the U.S. Coast Guard support of the Baffin Bay-North Water project of the Arctic Institute of North America. The area surveyed consisted of Kane Basin and northern and northeastern Baffin Bay. Data discussed in this report include physical and chemical observations in these areas.

OCEANOGRAPHIC CONDITIONS AT A FIXED LOCATION IN WESTERN KANE BASIN, MAY 1969

by

ROBIN D. MUENCH¹

From 3 to 20 May 1969 a three man scientific party carried out an oceanographic sampling program from a fixed position (79°16'N, 72°48' W) on the fast ice in western Kane Basin (fig. 1). Sampling was conducted by Eddy Carmack and James Overland, both from the University of Washington, and Gordon Tidmarsh from McGill University. The project was carried out under the auspices of the Arctic Institute of North America's Baffin Bay-North Water Project, with logistical support provided by the Canadian Polar Continental Shelf Project. The details of the field work have been discussed by Tidmarsh, *et al.* (1969).

Scientific features and problems in the Northern Baffin Bay region have been summarized by Muench (1971). The purpose of the Kane Basin field program was to:

a. Determine the vertical temperature and salinity structures of the water column at a time of year when late winter (i.e., premelt) conditions were prevalent;

b. Attempt detection of south-flowing Arctic Ocean Water of the proper type to contribute to Baffin Bay Bottom Water; and

c. Obtain a series of current measurements to define the flow through Kane Basin.

The sampling was conducted in approximately the deepest portion of the channel (fig. 1). Depth at the station position was determined by lead line to be 237 m. Three stations per day were taken at fixed hours; a fourth was taken at a random time to reduce the effects of periodic phenomena (e.g., tidal and inertial) on the samples. Water samples were acquired from seven depths except for two stations (32 and 42); samples at these two stations were taken at 10-m intervals to detect fine structure in the water column. Standard Nansen bottles were used in obtaining samples.

Temperatures were read from reversing thermometers supplied by the University of Washington. Strong ambient temperature gradients inside the tent (which served as a laboratory) made it difficult to obtain agreement between the two thermometers on any one bottle. The temperature accuracy is estimated to be $\pm 0.03^\circ\text{C}$. Salinity samples were decanted into polyethylene bottles and returned to the University of Washington for analysis. The salinities are accurate to $\pm 0.02\%$.

Two Braincon Model 381 recording current meters were suspended through the ice at 50 to 150 m depths from 5 to 20 May. The deeper meter malfunctioned and yielded no data, while the shallower meter yielded a complete record. Speeds are estimated to be accurate to $\pm 3\%$ of the measured values, while directions are accurate only to about $\pm 20^\circ$ due to the weak horizontal magnetic field in the survey area.

The hydrographic results (fig. 2) indicated that time-dependent changes in the water column were negligible over the measurement period. A nearly homogeneous layer, characterized by frequent 0.02 to 0.03°C supercooling, extended from the surface down to 50 m. Temperature was assumed to be a more reliable indicator of downward convection than salinity (Aagaard and Coachman, 1968) and suggested downward convection to 100 m, below which strong thermo- and haloclines occurred down to 200 m. No water of the proper type to contribute to Baffin Bay Bottom Water (-0.38 to -0.40°C , 34.48 to 34.50‰) was detected.

The measured currents are summarized in the form of speed and direction histograms (fig. 3). The complete set of current measurements was too long for inclusion in this report, but may be obtained from the Department of Oceanography, University of Washington.

The directions were bimodal, with a general southward (about 220° T) flow and less frequent

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northward (about 360° T) flow. Some northwestward (270 -to- 360° T) flow occurred, but little eastward (90° T) flow was evident. The individual data points indicated that flow reversals coincided with the diurnal tidal currents.

Speeds were generally below 25 cm/sec, and much of the record showed no detectable motion. A small peak on the speed histogram at about 8 cm/sec is of unknown cause. It is concluded that a sluggish net southward flow was occurring, with occasional reversals leading to northward flow.

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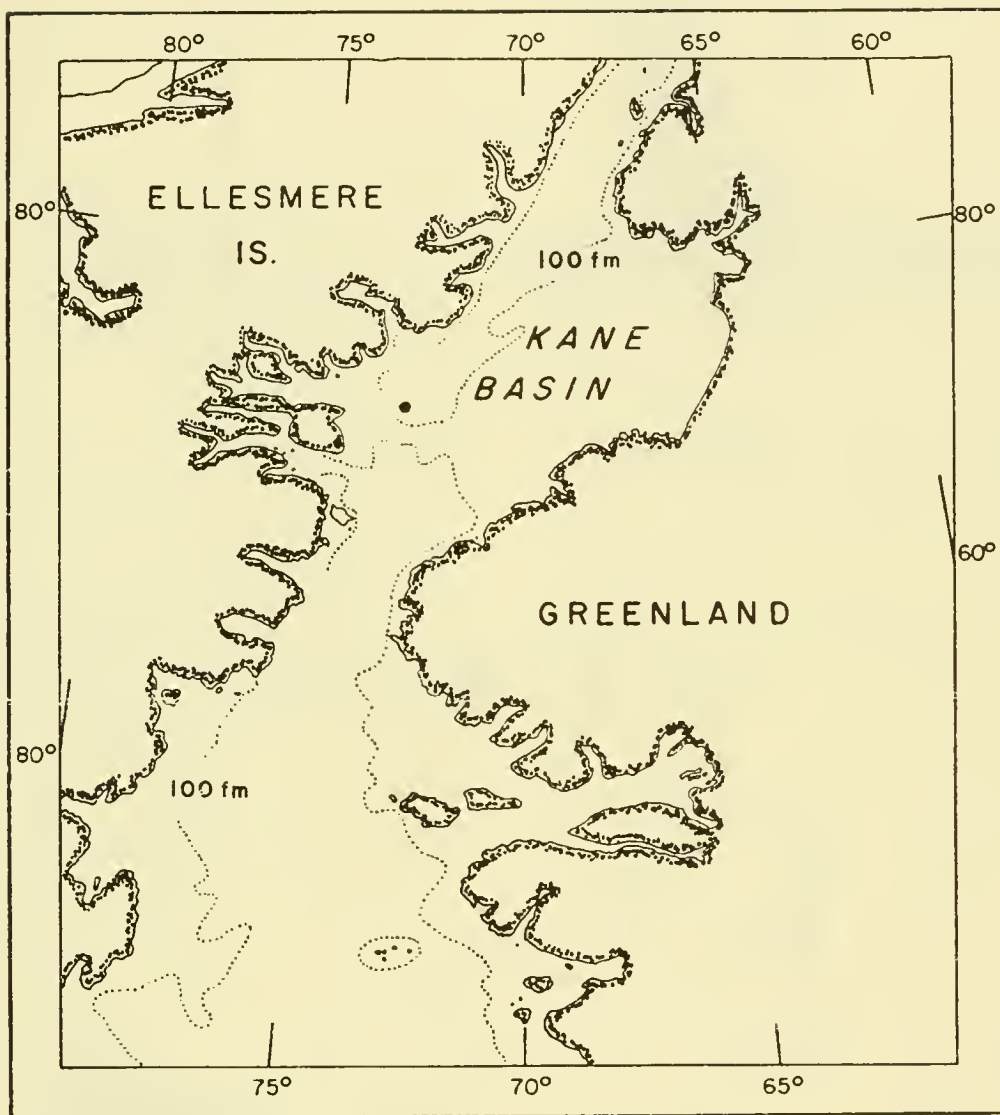


FIGURE 1. Geographical position of the ice camp from which oceanographic stations were occupied and current measurements made in May 1969. The dotted line indicates the 100 fm isobath (from Canadian Hydrographic Office Chart No. 7000).

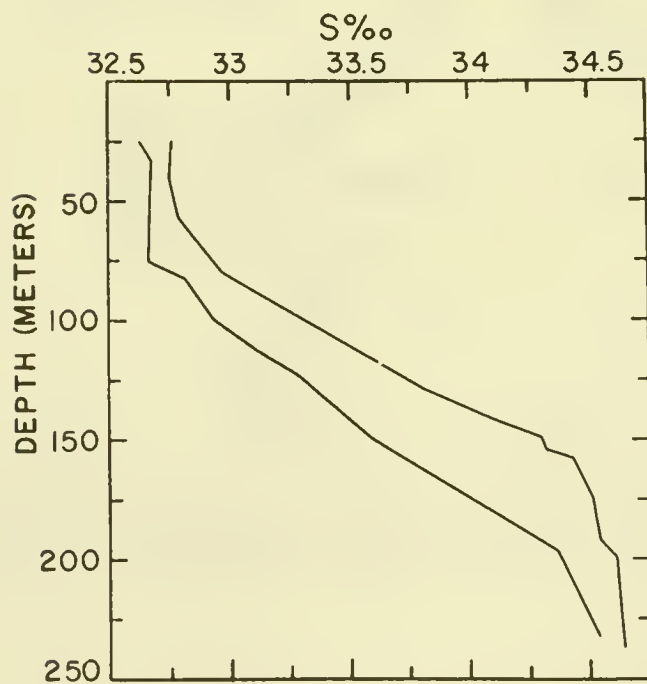
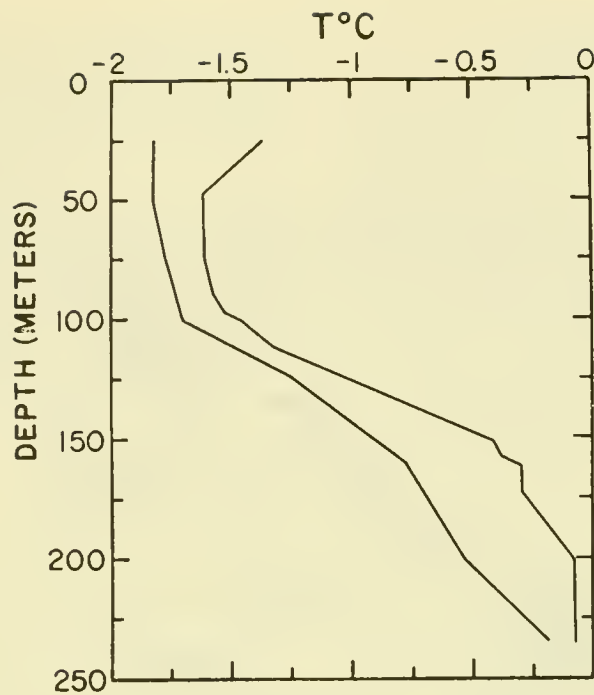


FIGURE 2. Envelopes of the vertical distributions of temperature and salinity observed in western Kane Basin during May 1969.

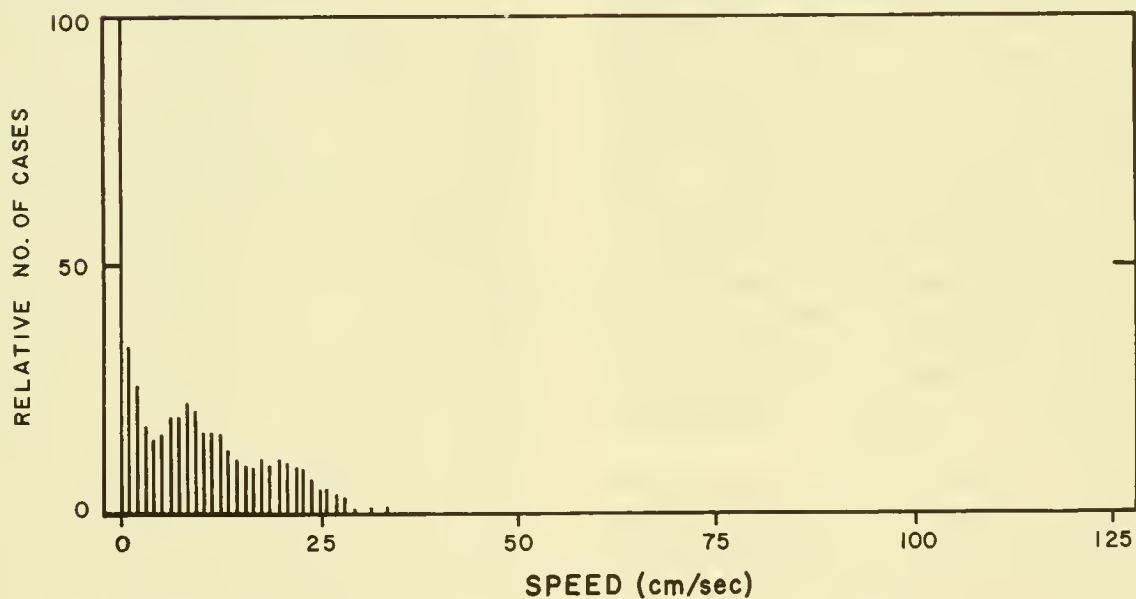
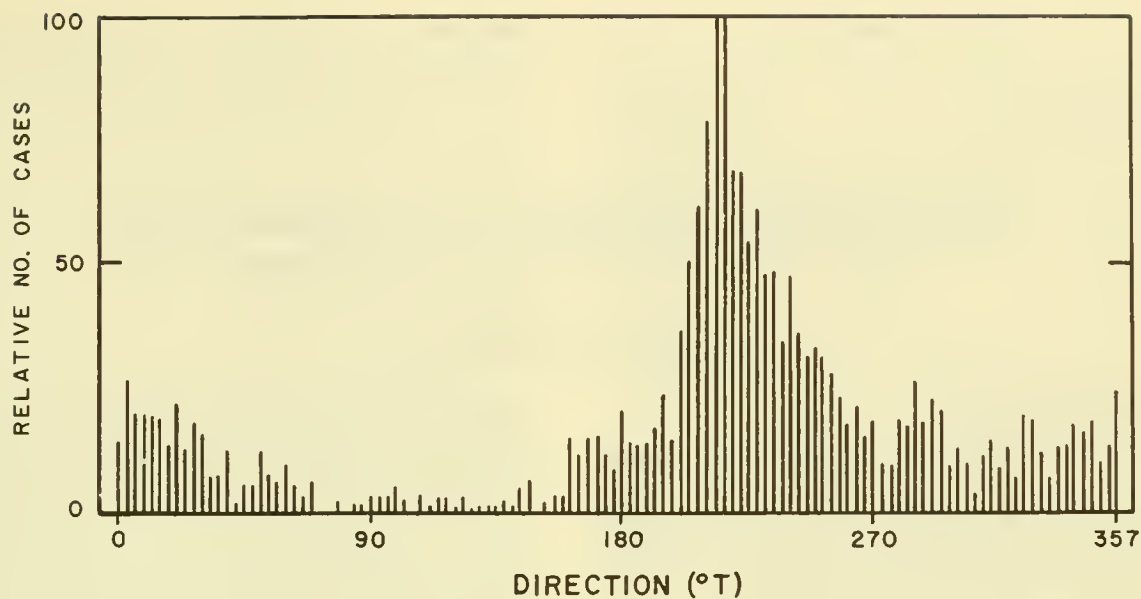


FIGURE 3. Histograms of current speed and direction at 50 m depth in western Kane Basin during May 1969.

OCEANOGRAPHIC CONDITIONS IN NORTHEASTERN BAFFIN BAY DURING AUGUST 1969

by

MARTIN J. MOYNIHAN¹

INTRODUCTION

The USCGC SOUTHWIND occupied thirty-six oceanographic stations in the waters of central and northeastern Baffin Bay from 14 to 28 August 1969 as part of the International Ice Patrol's West Greenland Glacier and Oceanographic Survey (fig. 1). This survey was part of a multiyear project to investigate the tidewater glaciers and oceanographic conditions along the western coast of Greenland to determine the differences between existing conditions and historical data as related to the origin and drift of icebergs (Moynihan, et al., 1970).

Temperature data and water samples were collected by Nansen casts. The resulting water samples were analyzed for salinity and oxygen concentrations on board the USCGC SOUTHWIND. Salinity was determined on board using an inductive salinometer. The conductivity values obtained were converted to salinity by use of the International Oceanographic Tables published jointly by UNESCO and the National Institute of Oceanography of Great Britain (1966). Dissolved oxygen concentrations were determined by the modified Winkler Method as described by Strickland and Parsons (1968). The resulting data were processed later at the Coast Guard Oceanographic Unit with a PDP-5 computer.

The data presented in the Tables of Oceanographic Data (Appendix A) are reproduced from computer listings from the National Oceanographic Data Center (Cruise Number 31-1529). Anomalies of dynamic height in the listings were computed by NODC; but all discussion of dynamic heights in this text are based on computations made at the Coast Guard Oceanographic Unit.

In addition, grab samples and cores of bottom sediments were obtained with an orange peel grab and Phleger corer at selected stations in the fjords seaward of glacier termini. The collection of these samples was supervised by U. S. Naval Oceanographic Office personnel. A preliminary analysis was conducted by Achstetter, et al. (1970), and the remaining material is presently held at the Geological Laboratory of the Naval Oceanographic Office.

DISCUSSION

The circulation of Baffin Bay plays an important role in the drift of icebergs from their parent glaciers on the western coast of Greenland to the North Atlantic shipping lanes off the Grand Banks. Smith (1931), Hawley, et al. (1941), and Dunbar (1951) described a cyclonic circulation of water in Baffin Bay and a similar drift of icebergs. West Greenland Current Water enters from the southeast through Davis Strait and water of polar origin enters from the northwest through Lancaster, Jones and Smith Sounds. The southward flowing Baffin Land Current along Baffin Island and recirculation of some West Greenland Current Water through the western side of Davis Strait account for the outflow of water from Baffin Bay.

Charts of dynamic topography (figs. 2 and 3) prepared from the USCGC SOUTHWIND's survey were used to depict the current patterns in this area. A weak northward flowing current was found near the Greenland coast and the general southeastward drift found offshore is believed to be the extreme eastern portion of the Baffin Land Current.

Remnants of the West Greenland Current were found in the warm, saline ($>1.0^{\circ}\text{C}$, $>34.4\%$) layer between 250 and 800 meters on all sections. A core of warm, high salinity water ($>2.0^{\circ}\text{C}$, $>34.5\%$) between stations 27 and 32 (figs. 6 and 7)

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appears to be part of a pool of West Greenland Current Water over the wide shelf in northeastern Baffin Bay. It was larger than a similar core found to the south at stations 18 and 19 (figs. 4 and 5). The core of West Greenland Current Water also was associated with high concentrations of dissolved oxygen (5.8 to 6.5 ml/l, fig. 7).

Water of polar origin ($>0^{\circ}\text{C}$, 32.0–34.0‰), found in the upper 250 meters of stations 18 through 26 (figs. 4, 5, 9 and 10), made up the southeastward drift detected in the dynamic topography. Baffin Bay Deep Water ($<-0.5^{\circ}\text{C}$, 34.40–34.45‰), was found below 1250 meters on these stations. Bailey (1956) concluded that this water originates in the Arctic Ocean at depths of about 250 meters, flows into the Baffin Bay through Smith Sound and sinks to depths between 1250 and 2100 meters.

The effect of solar heating and melting of sea ice was noticeable during this summer survey as indicated by temperatures of $>0.0^{\circ}\text{C}$ and salinities of $<32.0\text{‰}$ found in the near surface water (figs. 11 and 13). The influence of runoff is evidenced by the low salinities ($<30.0\text{‰}$) and high dissolved oxygen (>9 ml/l, Appendix A) found at the surface along the coast.

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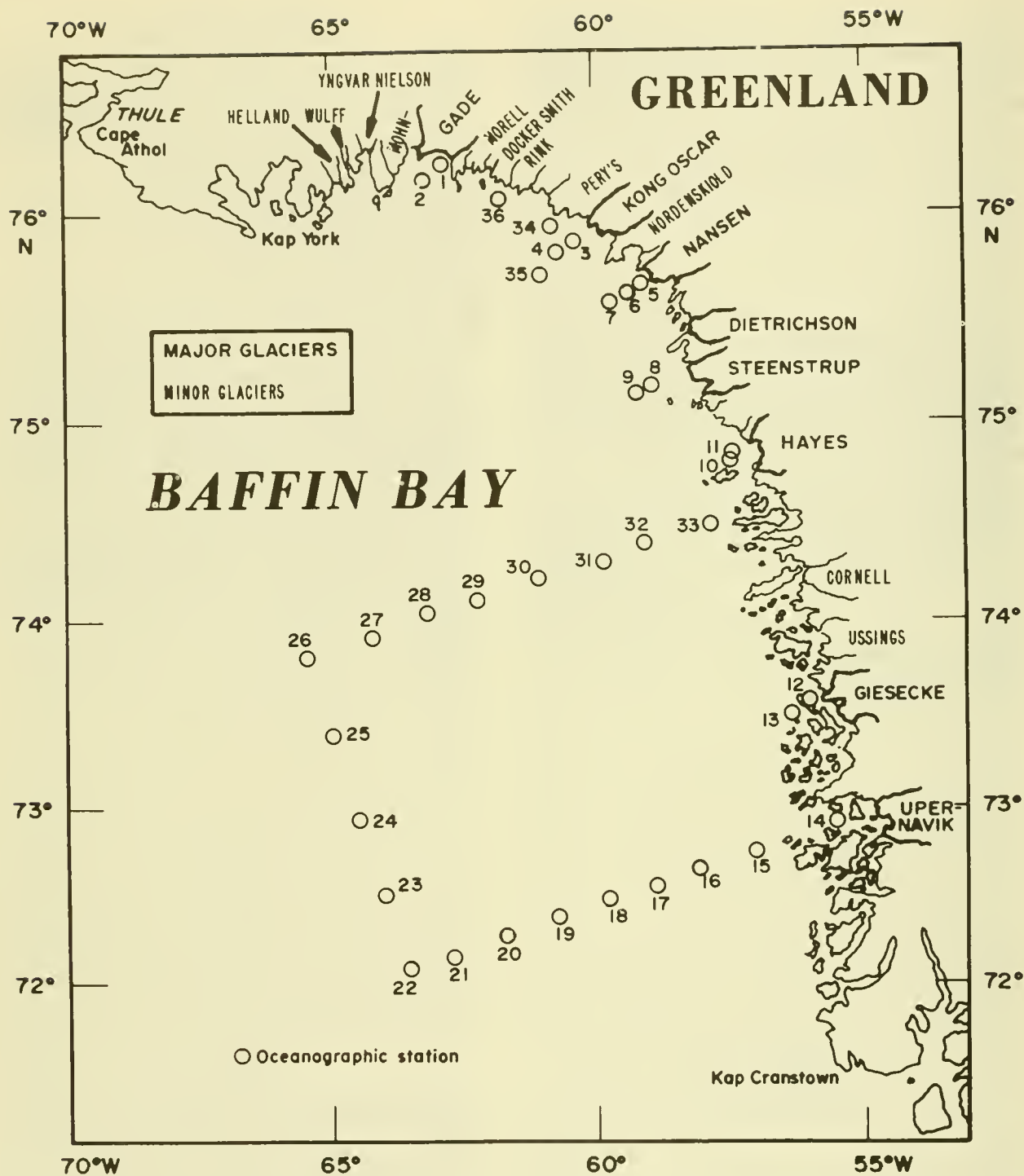


FIGURE 1. Positions of CGC SOUTHWIND stations 1-36, 14-28 August 1969 and locations of tidewater glaciers in Northeastern Baffin Bay.

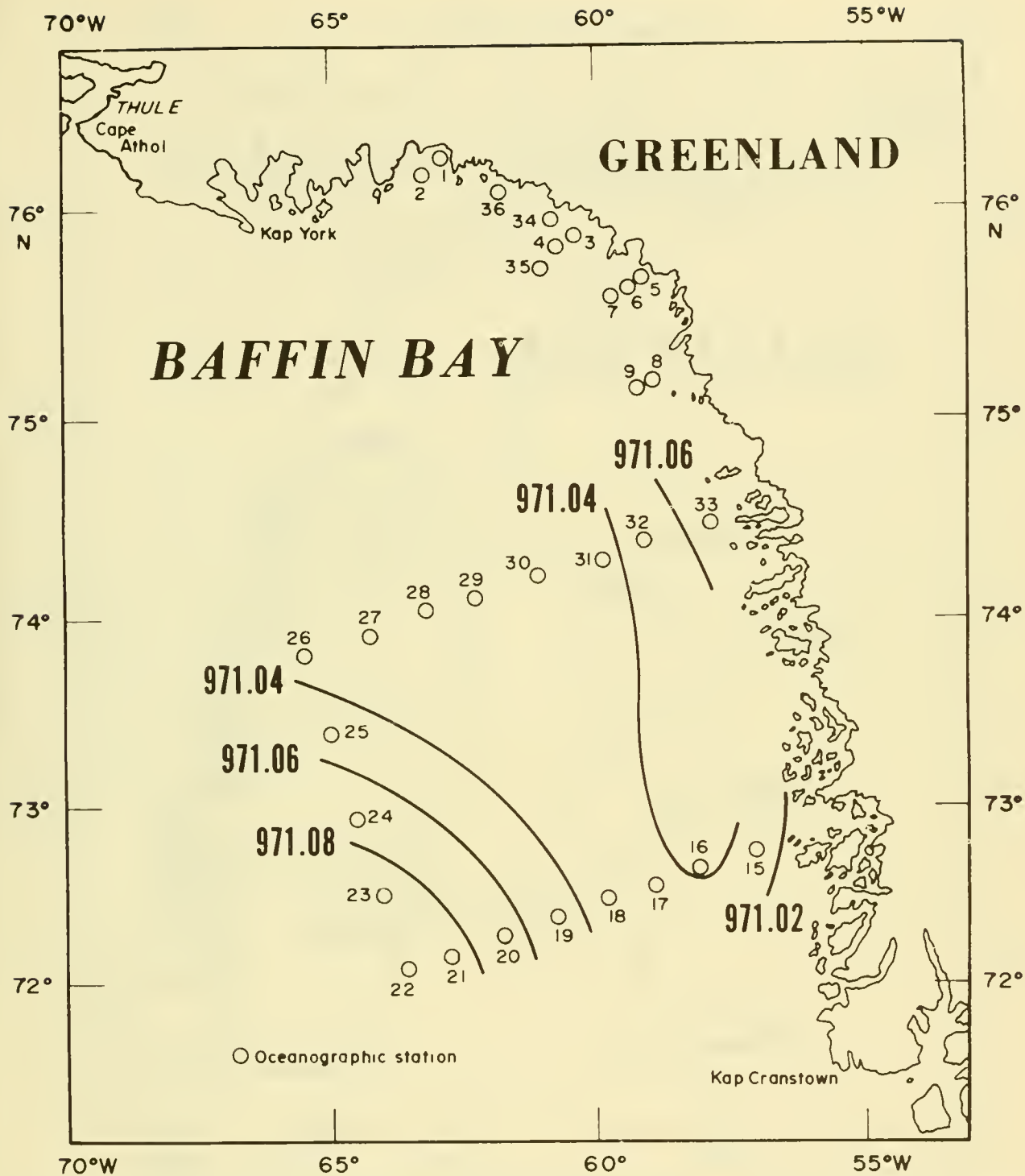


FIGURE 2. Dynamic topography (dynamic meters) of the sea surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14-28 August 1969.

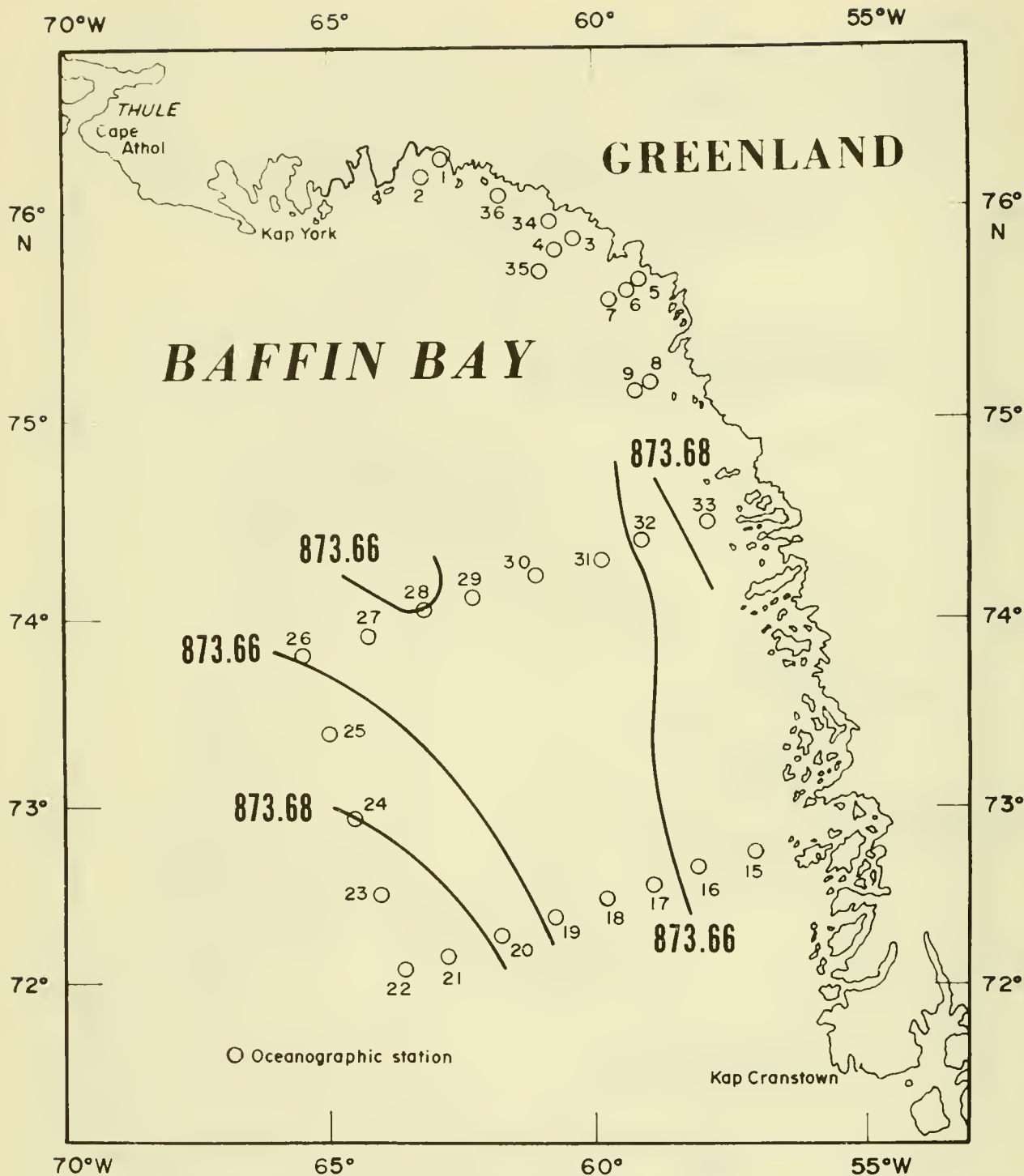


FIGURE 3. Dynamic topography (dynamic meters) of the 100 decibar surface with reference to the 1000 decibar surface, CGC SOUTHWIND survey 14-28 August 1969.

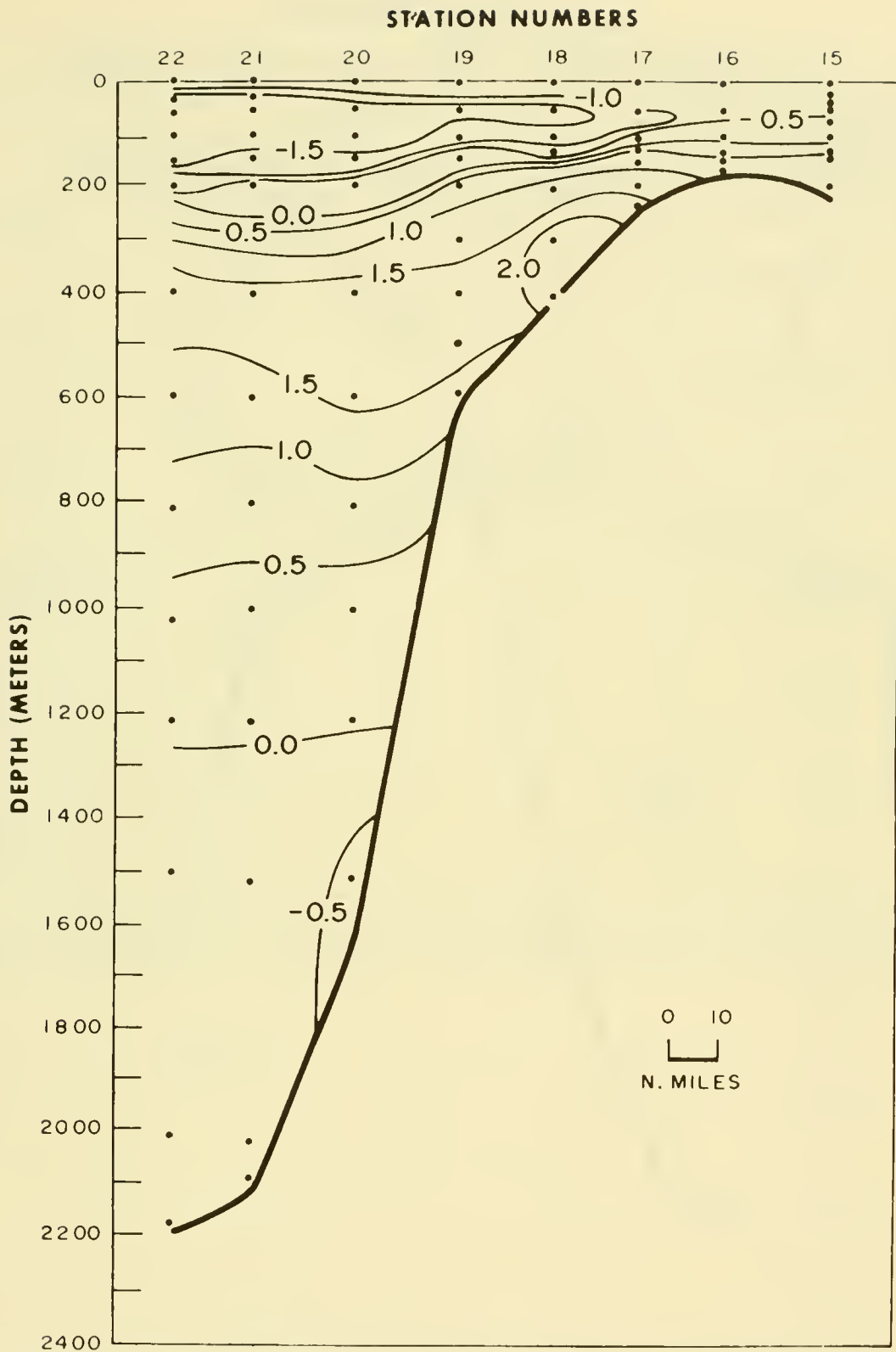


FIGURE 4. Vertical distribution of temperature ($^{\circ}\text{C}$), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969.

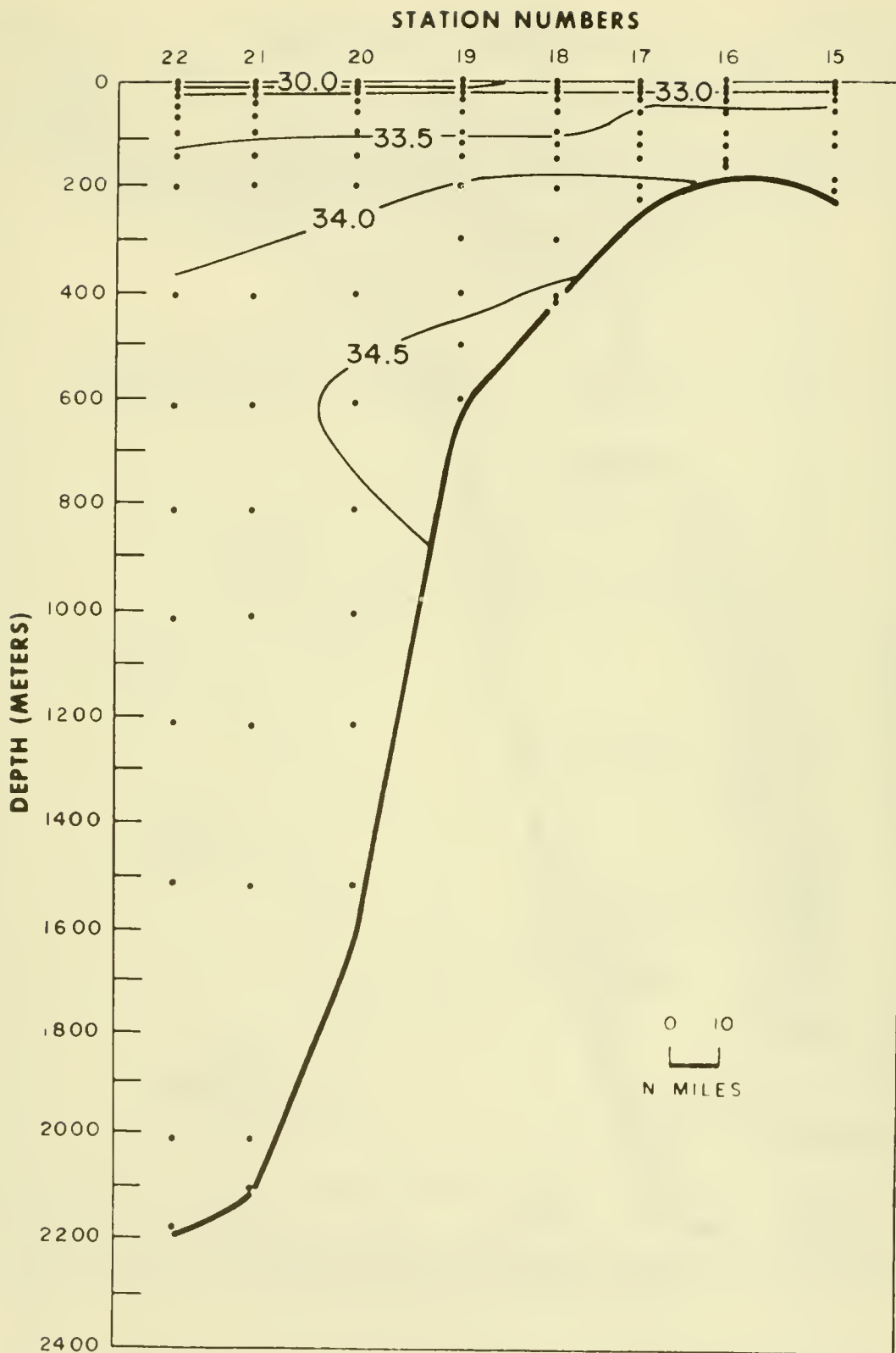


FIGURE 5. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 15 to 22, 24-25 August 1969. Contour interval 0.5‰ above 33‰ and 3‰ below 33‰.

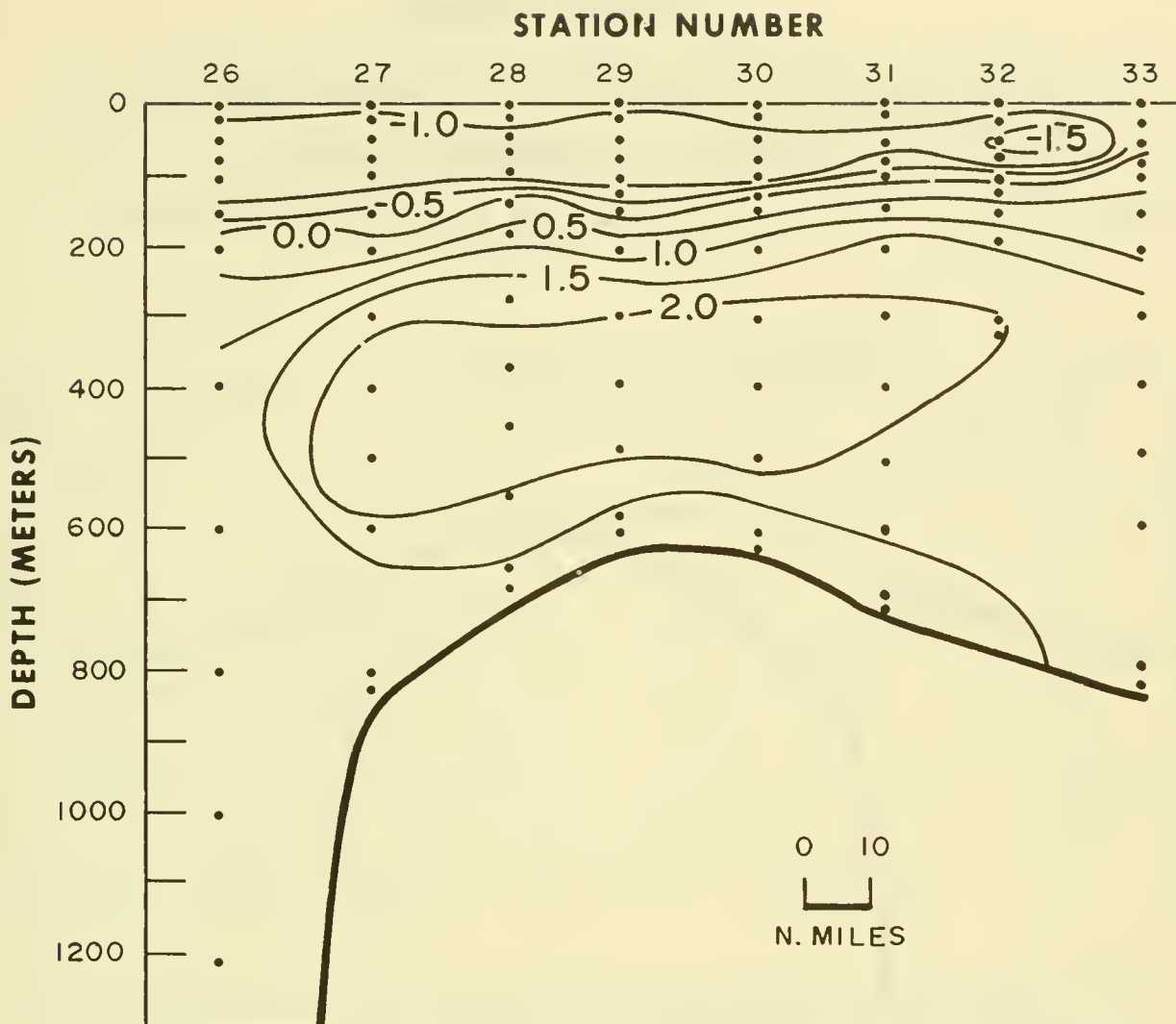


FIGURE 6. Vertical distribution of temperature ($^{\circ}\text{C}$), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

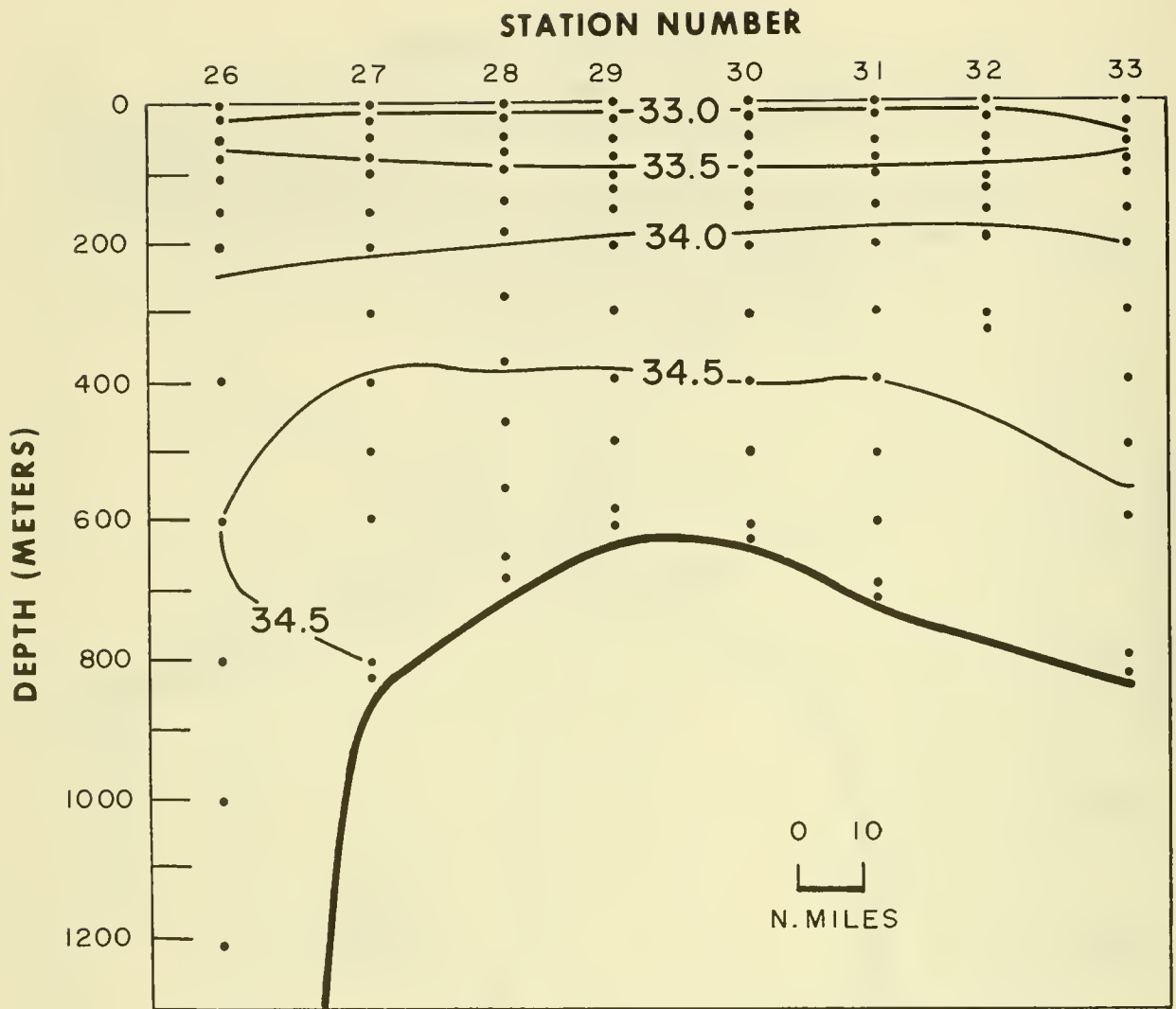


FIGURE 7. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

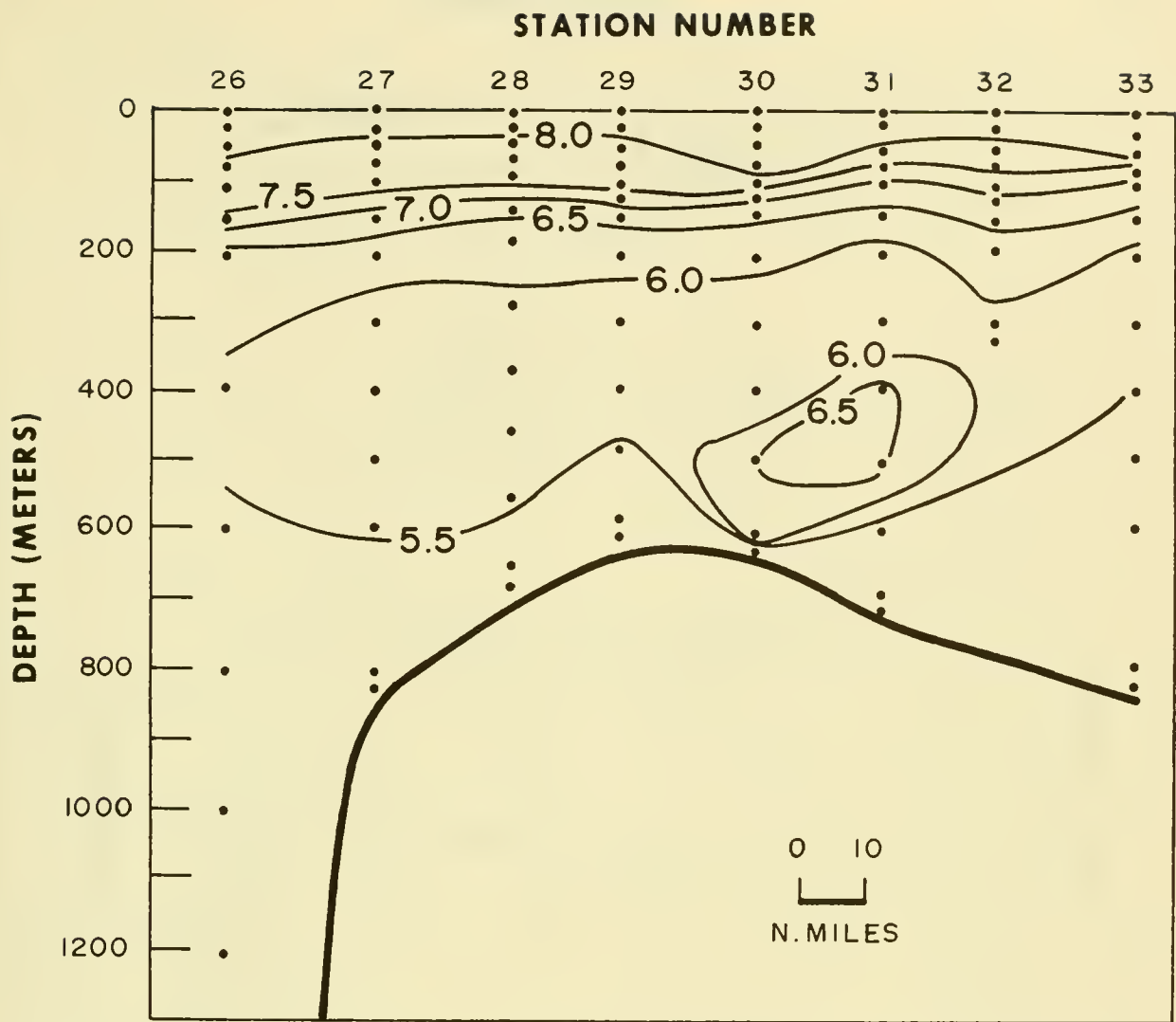


FIGURE 8. Vertical distribution of dissolved oxygen (ml/l), CGC SOUTHWIND stations 26 to 33, 26 August 1969.

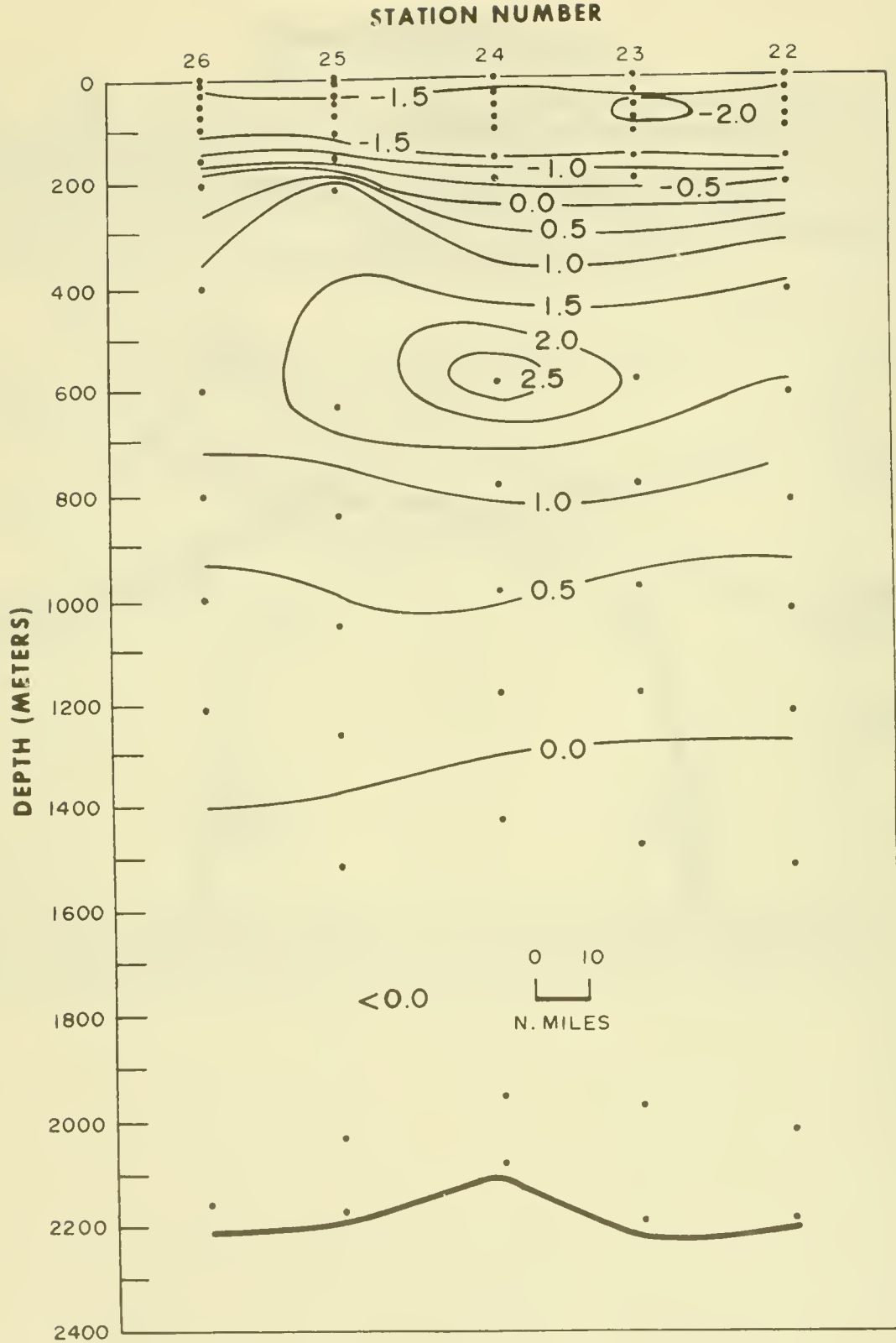


FIGURE 9. Vertical distribution of temperature (°C), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.

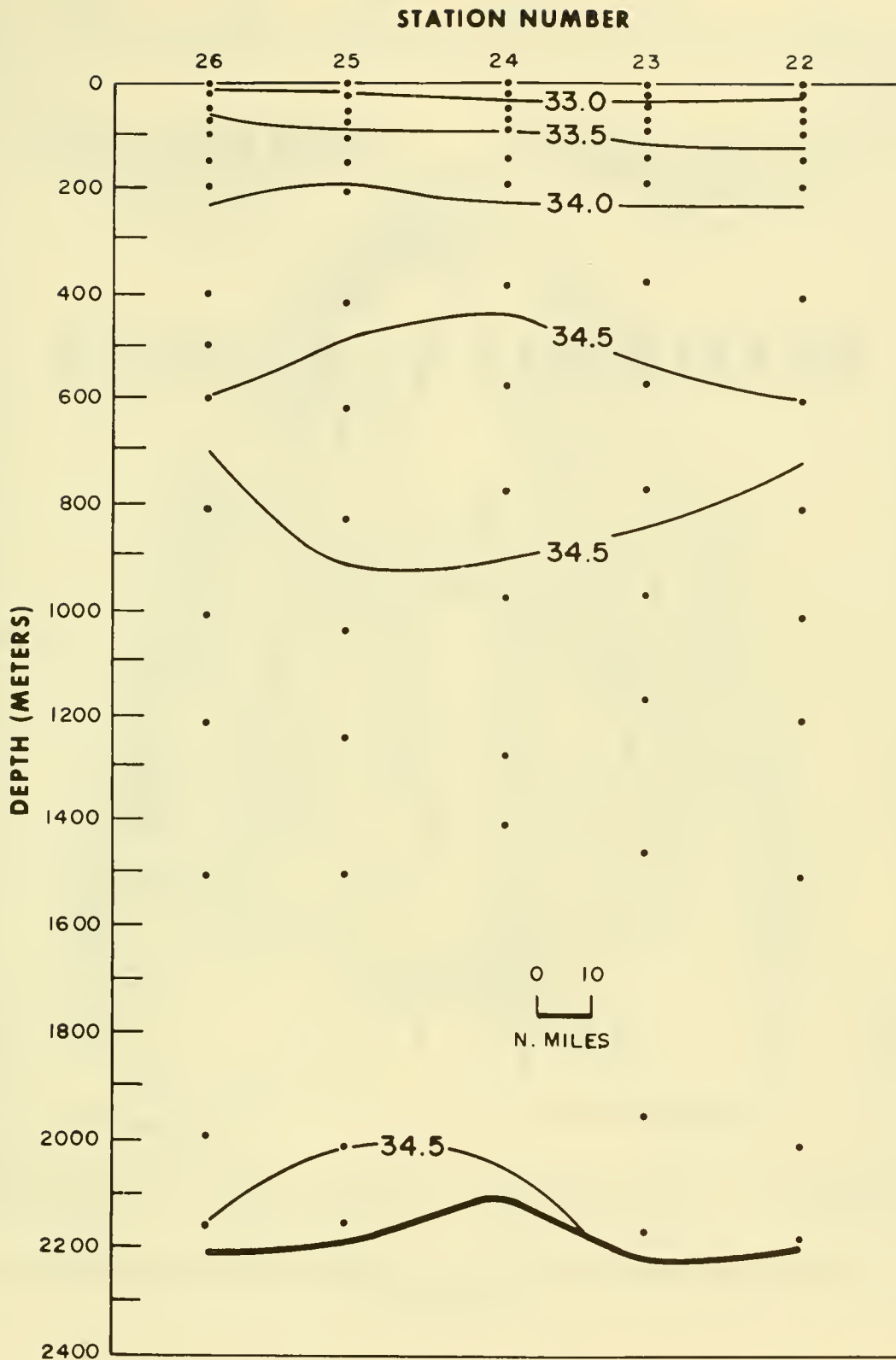


FIGURE 10. Vertical distribution of salinity (‰), CGC SOUTHWIND stations 22 to 26, 25-26 August 1969.

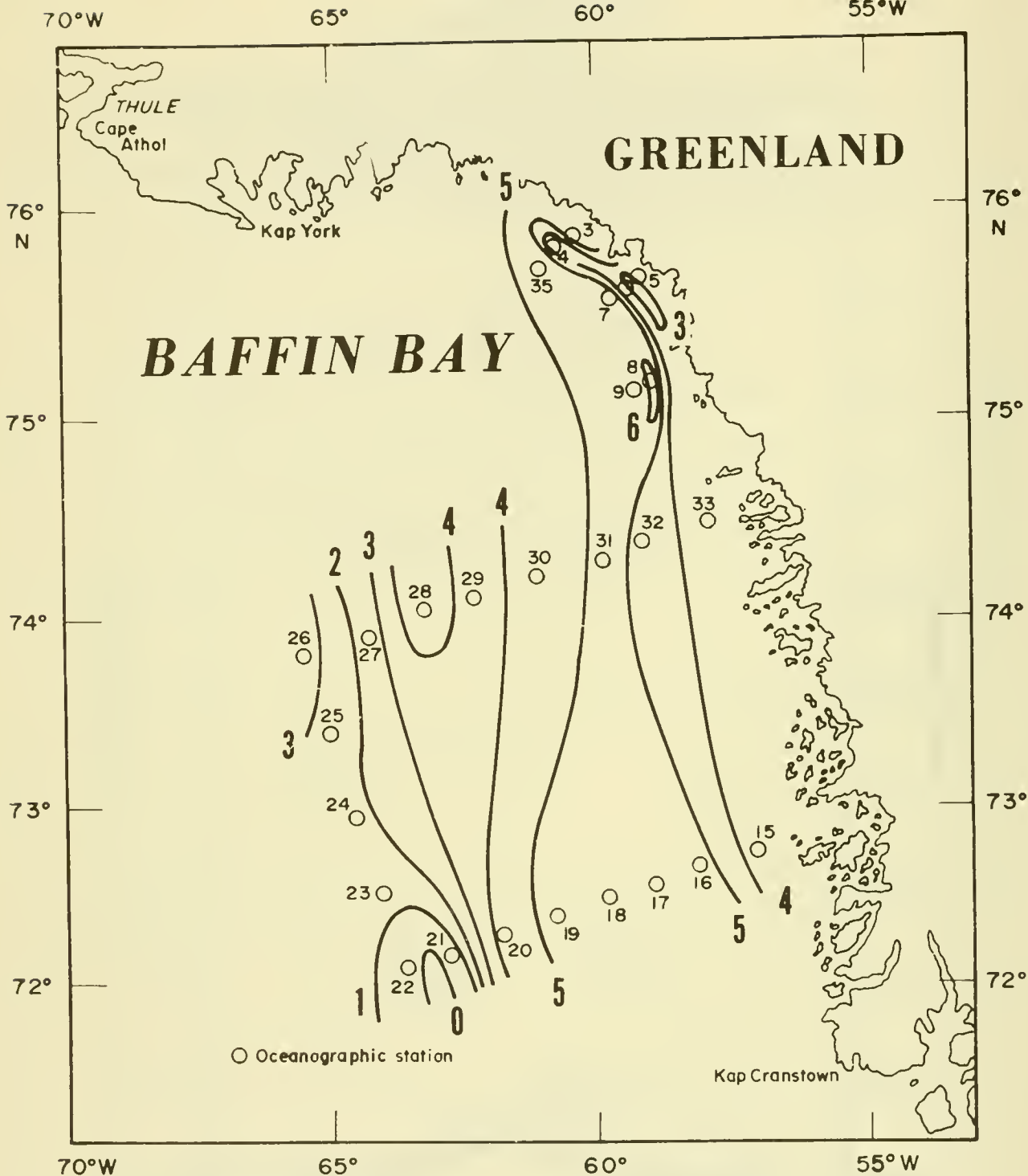


FIGURE 11. Horizontal distribution of temperature ($^{\circ}\text{C}$) at the sea surface, CGC SOUTHWIND survey 14–28 August 1969.

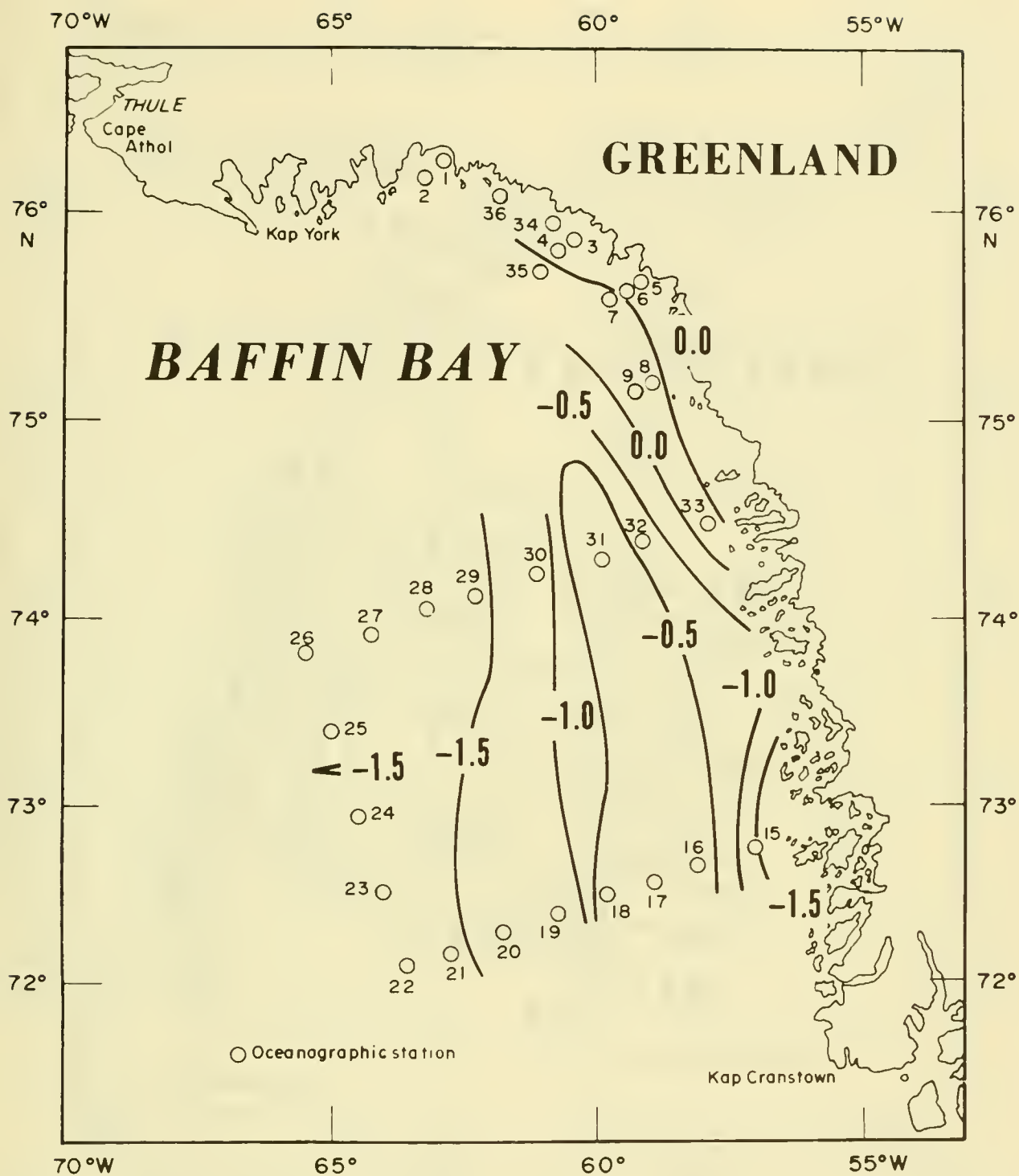


FIGURE 12. Horizontal distribution of temperature (°C) at the 100 meter level, CGC SOUTHWIND survey 14-28 August 1969.

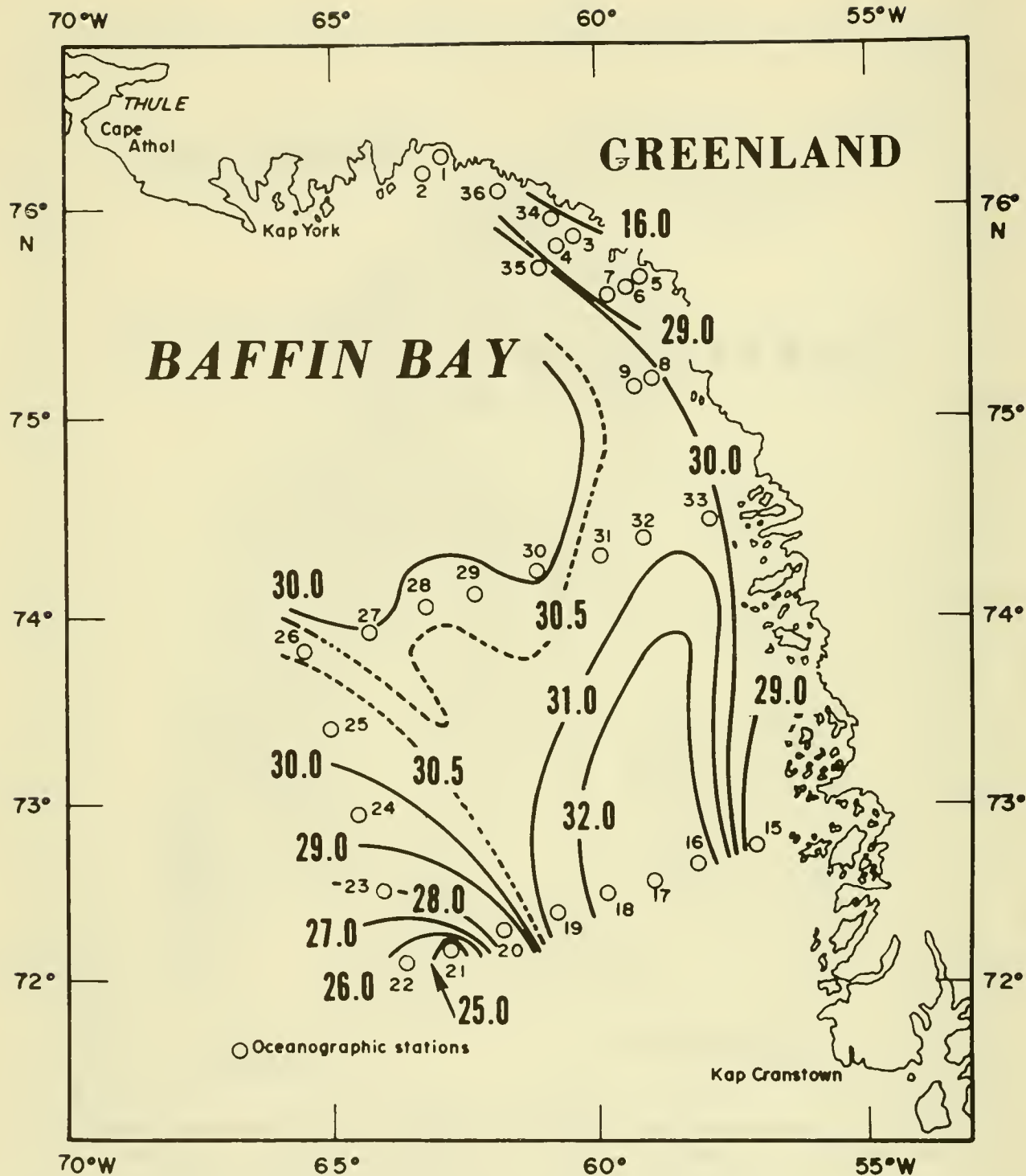


FIGURE 13. Horizontal distribution of salinity (‰) at the sea surface, CGC SOUTHWIND survey 14–28 August 1969.

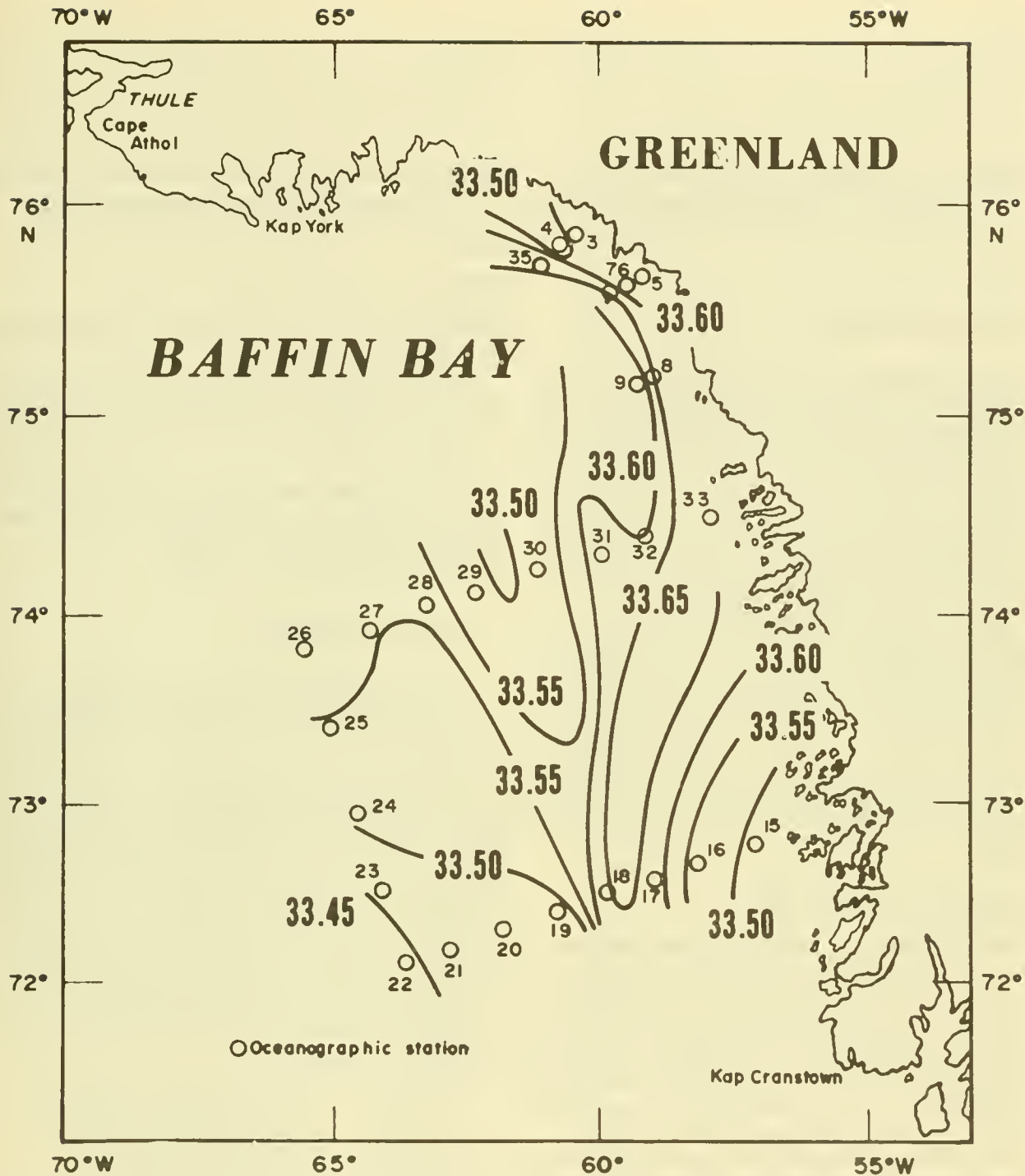


FIGURE 14. Horizontal distribution of salinity (‰) at the 100 meter surface, CGC SOUTHWIND survey 14-28 August 1969.

OCEANOGRAPHIC CONDITIONS IN THE MELVILLE BAY-CAREY ISLANDS REGION, NORTHERN BAFFIN BAY, 17 SEPTEMBER-2 OCTOBER 1969

by

ROBIN D. MUENCH¹

INTRODUCTION

An oceanographic survey was carried out from the CGC WESTWIND in the Melville Bay-Carey Islands region of northern Baffin Bay from 17 September-2 October 1969 (figs. 1 and 2). This survey was carried out under the auspices of the Baffin Bay-North Water Project, coordinated by the Arctic Institute of North America and cooperative among groups from the University of Washington, the United States Coast Guard, McGill University and Dartmouth College.

The oceanography of northern Baffin Bay has been discussed by Muench (1971). The 1969 survey was designed to investigate this region by continuing, to the southeast, the detailed survey carried out farther north in 1968 (Muench, et al., 1971). The placement of current meters, designed to be retrieved the following summer, in Smith Sound was an attempt to obtain winter current data.

SAMPLING PROGRAM

On 17 September 1969 the scientific field party boarded the CGC WESTWIND at Thule, Greenland. These personnel included Robin D. Muench, Jerry A. Galt, Rick Avis and Joseph Karpen, all from the University of Washington, and Gordon Tidmarsh from McGill University. The CGC WESTWIND was commanded by Capt. J. S. Thuma, United States Coast Guard.

Two Geodyne Model 850 recording current meters were moored in north central Smith Sound (78°30.6'N, 73°51.0'W) on 20 September. This array was designed to be retrieved by means of an acoustic release during summer 1970. Two recording current meters were moored later on the same date at each of the indicated locations south

of Cape York (fig. 1) and were retrieved on 2 October.

On 21-25 September, stations 1-48 and 00A-00D were occupied, after which foul weather dictated a retreat into Thule. A loss of LORAN coverage necessitated determining the positions of stations 00A-00D by dead reckoning, so that the positions of these stations are considered less reliable than those of other stations. Stations 49-90 were occupied on 27 September-2 October.

DATA ANALYSIS

The oceanographic data were obtained using a Bissett-Berman Model 9060 self-contained salinity/temperature/depth recording unit (STD). The instrument was used as supplied directly from the factory, where it had been calibrated. It had been intended to place two Nansen bottles on every cast to check temperatures, salinities and depths from the STD, but lack of a shipboard salinometer precluded this. Twenty samples were obtained, using Nansen bottles, for calibration purposes. The temperatures were read using reversing thermometers, and samples were returned to the University of Washington for salinity determination.

The advertised accuracy and resolution, in that order, of the STD were:

Salinity:	$\pm 0.05\text{‰}$ and $\pm 0.02\text{‰}$
Temperature:	$\pm 0.05^{\circ}\text{C}$ and $\pm 0.05^{\circ}\text{C}$
Depth:	$\pm 0.25\%$ full scale and $\pm 0.10\%$ half scale

The STD used (serial number 5418) had a tendency to record salinities 0.05 to 0.10‰ too high at depths between 500 and 1000 m, the error increasing with depth. Shallower than 500 m, the salinity accuracy was within the advertised specifications. No errors were detected in temperature or depth readings.

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The oceanographic station data were compiled by visual digitization of the analog chart output from the STD at standard depths. Salinities below 500 m were corrected with the aid of a calibration curve constructed using salinities from the Nansen bottle samples. The final data are accurate to within the advertised specifications.

Two Braincon Model 381 and two Geodyne Model 850 recording current meters were moored south of Cape York using the mooring configuration and method described previously (Muench, et al., 1971). None of these meters yielded reliable data. Two of them (one of each type) yielded no data at all, while the other two suffered malfunctions which destroyed the time base for the recorded data.

OCEANOGRAPHIC RESULTS

The oceanographic results are presented as:

- a. Vertical sections showing temperature and salinity distributions (figs. 3–32), constructed directly from the STD vertical profiles;
- b. Temperature-salinity curves (fig. 33);
- c. Isentropic diagrams (fig. 34);
- d. Dynamic topographies (fig. 35); and
- e. Station data listed in standard format (Appendix A).

The region from Melville Bay to the section southwest of Cape Dudley Digges (figs. 3–18; areas 1 and 3, fig. 33) contained a warm ($>0^{\circ}\text{C}$), saline ($>34.4\%$) layer at 300–400 m depth and a colder ($<0^{\circ}\text{C}$), less saline ($<33.7\%$) layer 50–100 m deep. The warm layer cannot have originated in the Arctic Ocean, due to its low salinity relative to that of Arctic Ocean Water of the same temperature (Muench, 1971), and therefore is Baffin Bay Atlantic Water which originated south of Davis Strait. The cold, shallow layer is a remnant of the preceding winter's convective layer within Baffin Bay, and is part of the Baffin Bay Arctic Water (Muench, 1971).

Water in southwestern Smith Sound (stations 54–55, figs. 31–32; area 2, fig. 33) was characterized by uniformly low temperatures ($<0^{\circ}\text{C}$) and salinities ($<34.3\%$). These low temperatures and salinities, coupled with a known net southward transport through Smith Sound (Muench, 1971), suggest that this water originated in the Arctic Ocean.

The water masses in the remaining areas (figs. 19–30; areas 4–5, fig. 33) had temperatures and salinities intermediate between those of the Baffin

Bay Atlantic and Arctic waters and the water of Arctic Ocean origin from Smith Sound and therefore were mixtures of the three masses. Data from other years also suggest that the northern Baffin Bay region is a primary site of mixing between these water masses (Muench, 1971).

A restricted area west of Cape York (stations 44 and 76, figs. 19–22) exhibited a breakdown in vertical temperature structure. This area was also characterized by relatively high surface salinities ($>33\%$). These anomalous features of the temperature and salinity distribution were not observed during other years.

The temperature distribution on the $\sigma_t=27.5$ surface (fig. 34) corroborated the contention that water from the relatively warm Baffin Bay Atlantic Water layer was the cause of the temperature maximum ($>2^{\circ}\text{C}$) in Melville Bay. This warm water extended westward past Cape York and then northward as a tongue east of the Carey Islands. The Baffin Bay Atlantic Water, which had been modified by admixture of Arctic Ocean Water from Smith Sound, was characterized by lower temperatures ($<1.5^{\circ}\text{C}$). This occurred on 21–25 September as a southeasterly-trending tongue south of the Carey Islands which appeared, by 27 September–2 October, to be detaching to form a “blob” (fig. 34).

The baroclinic circulation may be estimated from the slopes of the isohalines on vertical salinity distributions, because they indicate the internal mass distribution in cold water, but this circulation is more clearly indicated by dynamic topographies (fig. 35). Prominent features observed in the circulation were the westward to northward coastal current from off Cape York to east of the Carey Islands, and the southward flow west of the islands. This general circulation pattern appears to be common here (Muench, 1971). The complex cyclonic circulation shown south of the Carey Islands may not be real, because of the relative inaccuracy of the temperature and salinity measurements on which the dynamic computations were based. The countercurrent between the two westernmost stations west of the Carey Islands was defined only by those two stations; since such a feature has never before been observed there, it should be regarded with skepticism.

A high concentration of icebergs along the coast northwest of Cape York during the observation period suggested the presence there of a northwestward coastal surface current. A southward extend-

ing "plume" of icebergs south of Cape York also suggested a southward surface current there coincident with the southern arm of the anticyclonic meander indicated by the 34 dyn cm isoline (fig. 35, upper). The westward tongue-like extension of Baffin Bay Atlantic Water south of Cape York (fig. 34, upper) suggested a westward current at that depth (400 m).

The westward and northward coastal currents off Cape York appeared to be related to the presence of an overlying near-surface wedge of relatively low salinity (generally $<32.5\%$, but occasionally $<30\%$) water (figs. 4, 6, 8, 10, 14, 19, 26, 30, and 32). This wedge has been suggested by Muench (1971) to be due to runoff from the western Greenland near-coastal ablation zone. The southward current west of the Carey Islands was part of the well documented net southward flow through Smith Sound, farther to the north.

The 1969 data clarified the temperature and salinity distributions and circulation in northern Baffin Bay from the Carey Islands to Melville Bay. The features observed were similar to those observed in previous years. Failure of the moored current meters precluded comparisons between baroclonic and total currents.

REFERENCES

- Muench, R. D. (1971) The physical oceanography of the northern Baffin Bay region. The Baffin Bay—North Water Project Scientific Report No. 1. Arctic Institute of North America, Washington, D.C., 150 pp.
- Muench, R. D., M. J. Moynihan, E. J. Tennyson, Jr., W. G. Tidmarsh, and R. B. Theroux (1971) Oceanographic conditions in Smith Sound and northern Baffin Bay, September 1968 in Oceanographic Observations in Baffin Bay during July–September 1968. U. S. Coast Guard Oceanographic Report, CG-373-37.

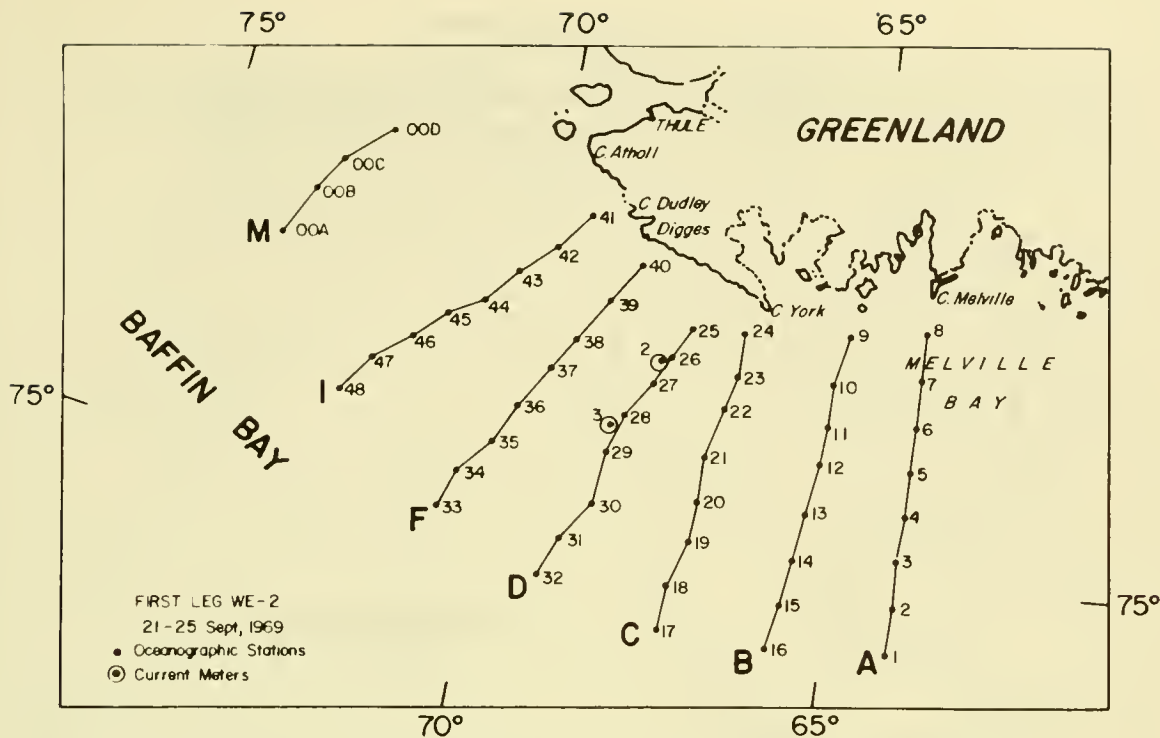


FIGURE 1. Cruise track of CGC WESTWIND. First leg, showing stations and sections.

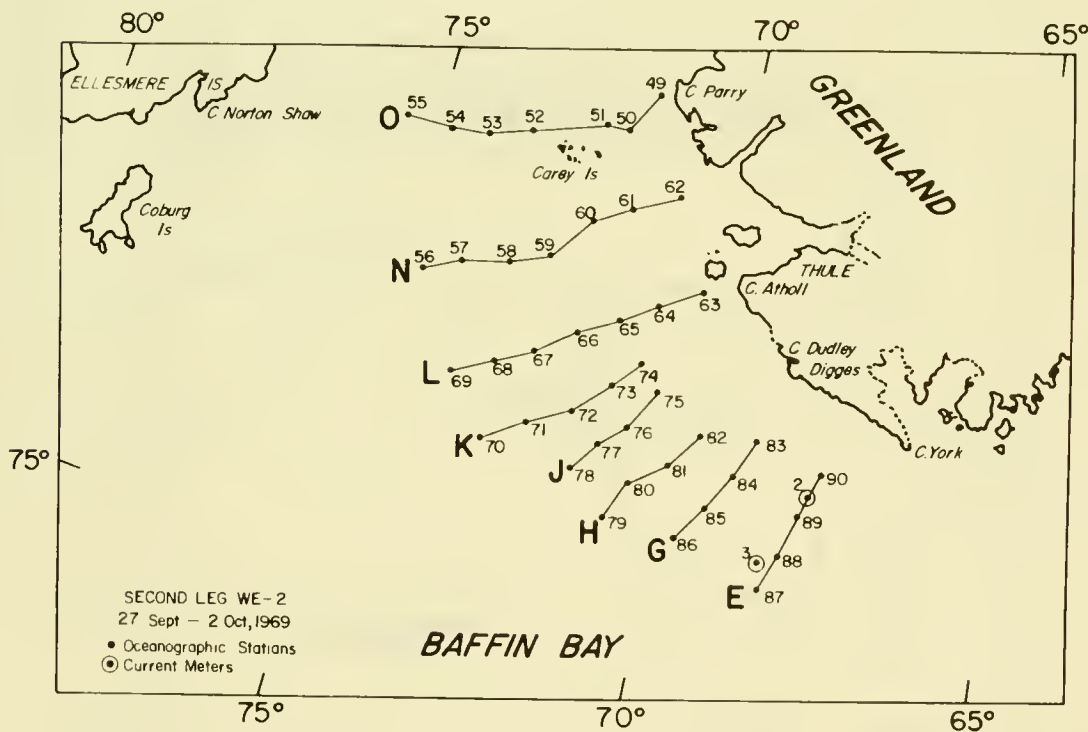


FIGURE 2. Cruise track of CGC WESTWIND. Second leg, showing stations and sections.

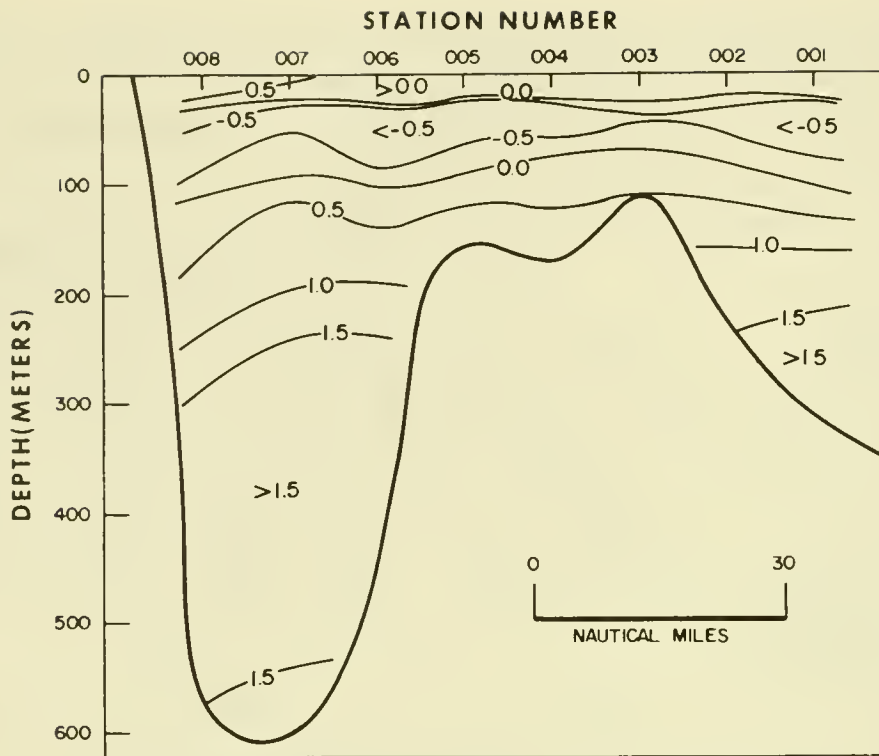


FIGURE 3. Vertical distribution of temperature ($^{\circ}\text{C}$), Section A.

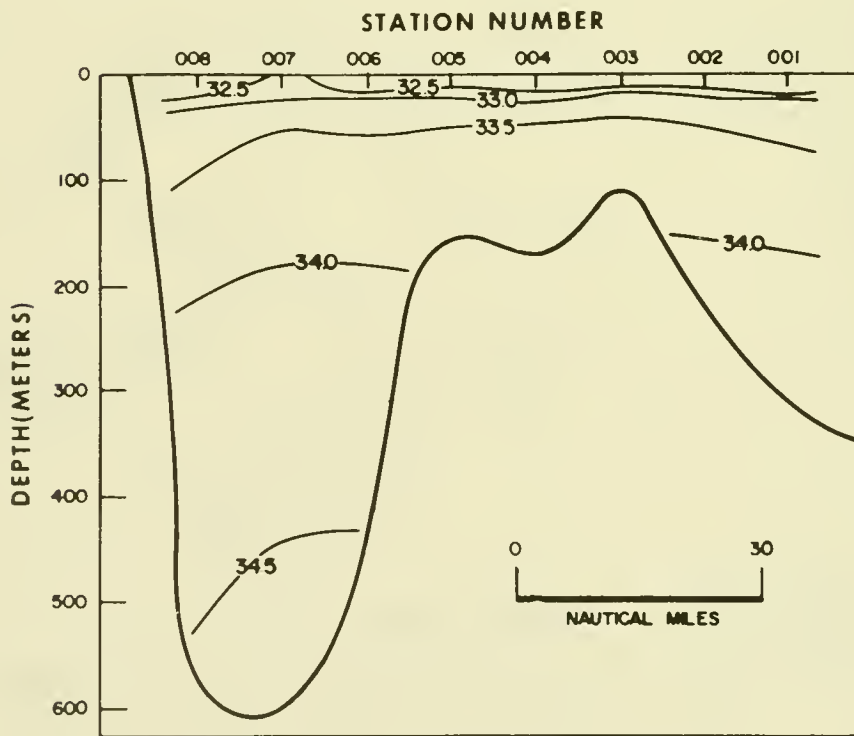


FIGURE 4. Vertical distribution of salinity (‰), Section A.

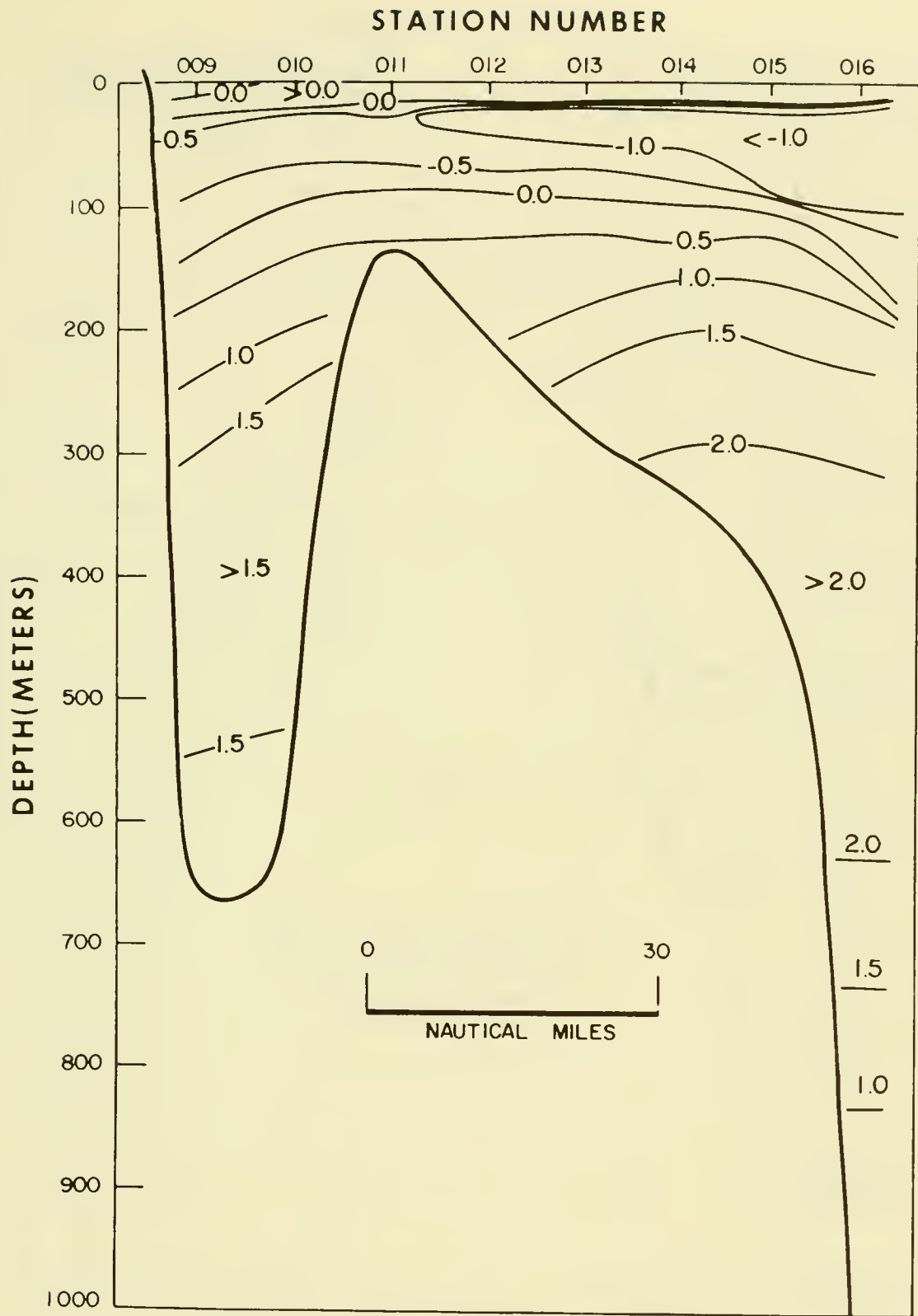


FIGURE 5. Vertical distribution of temperature ($^{\circ}\text{C}$), Section B.

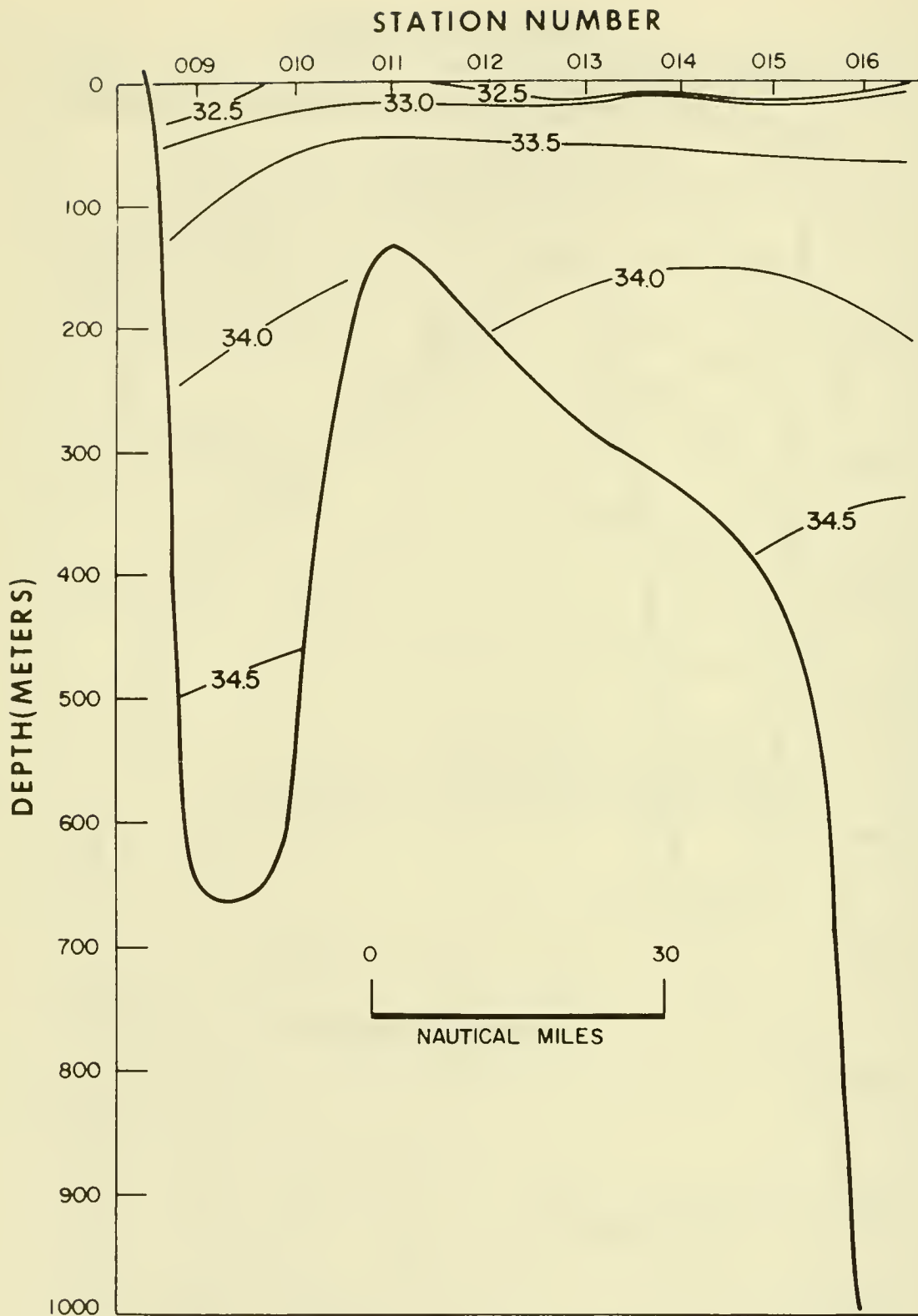


FIGURE 6. Vertical distribution of salinity (‰), Section B.

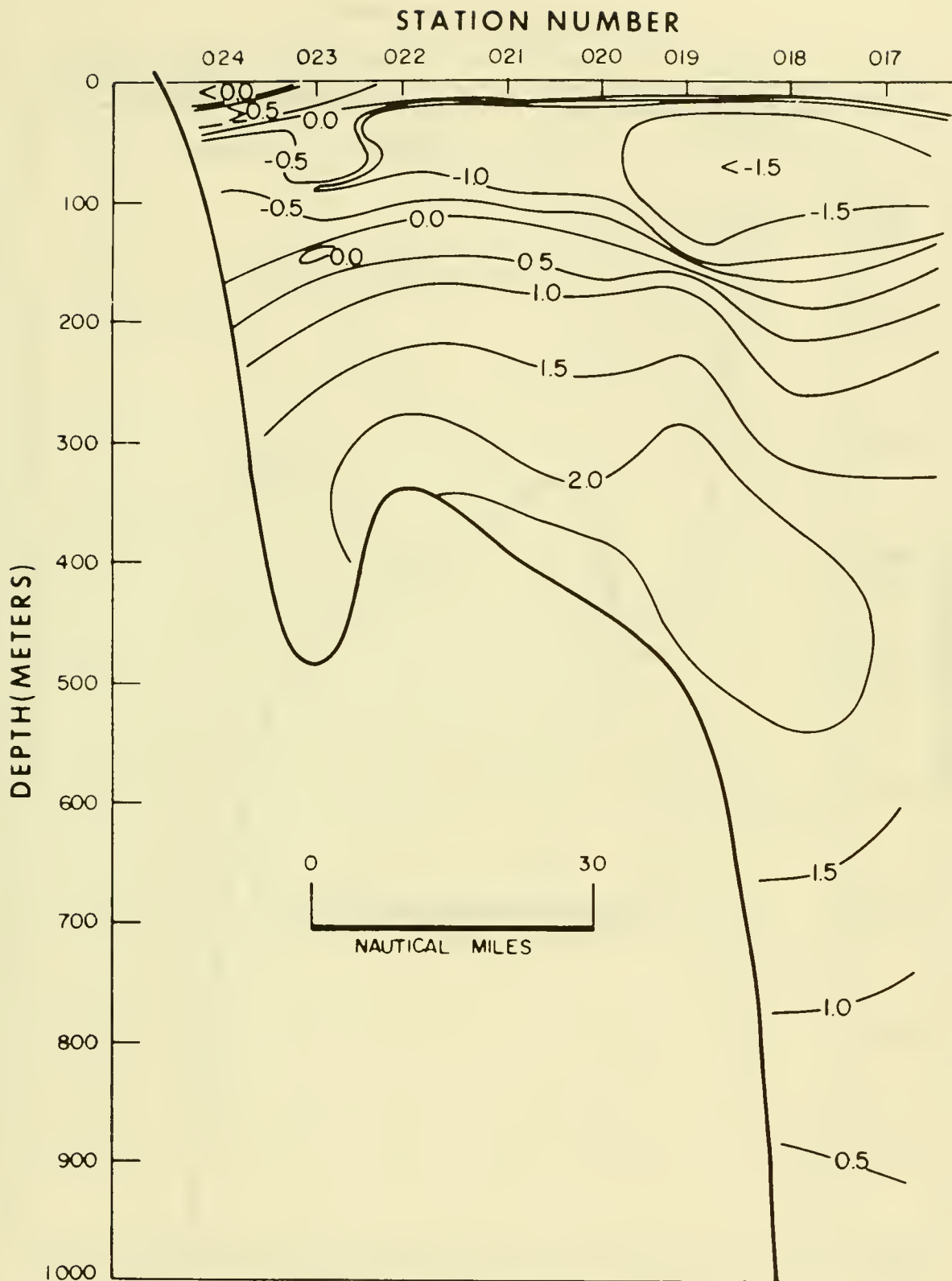


FIGURE 7. Vertical distribution of temperature ($^{\circ}\text{C}$), Section C.

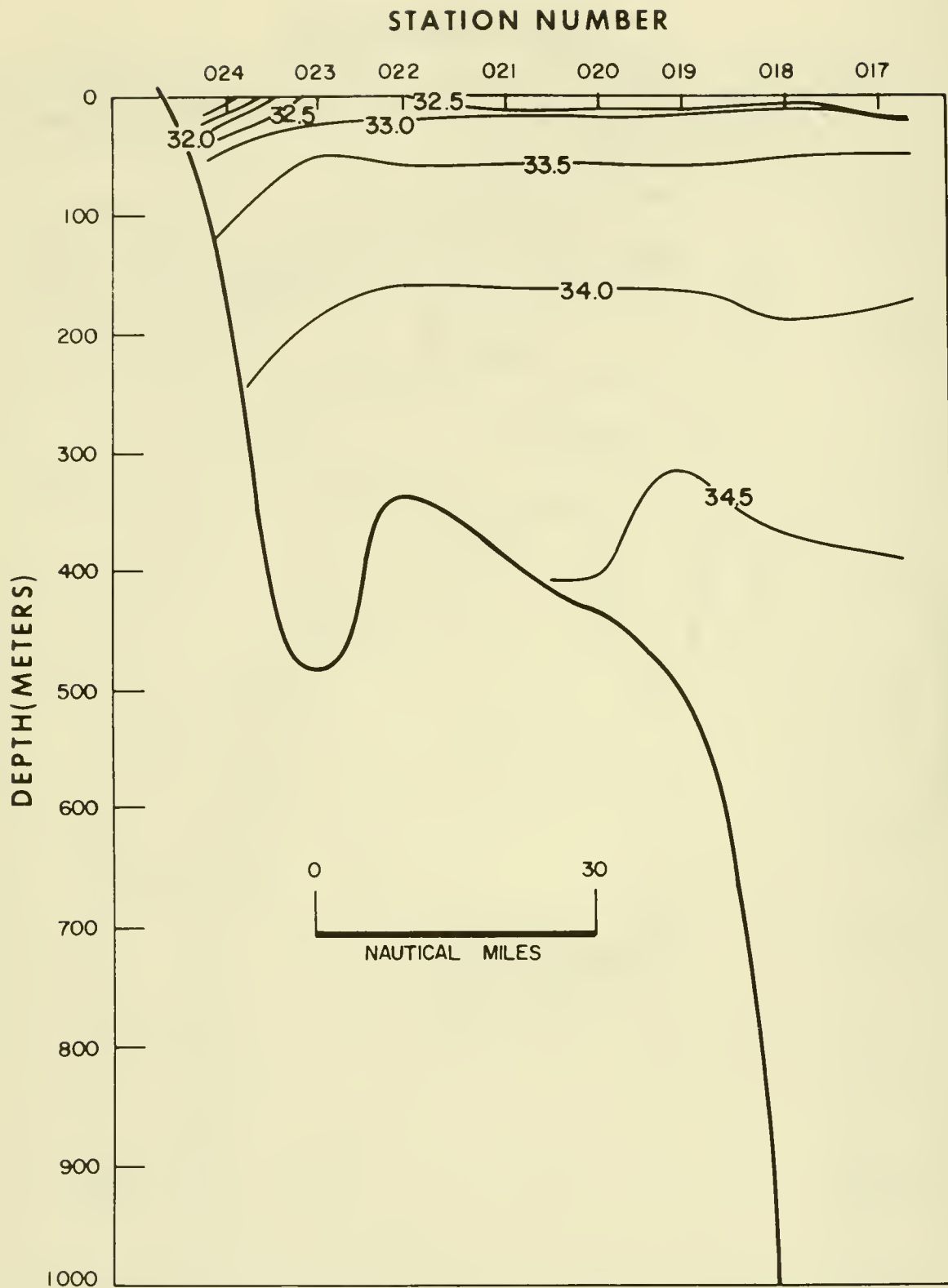


FIGURE 8. Vertical distribution of salinity (‰), Section C.

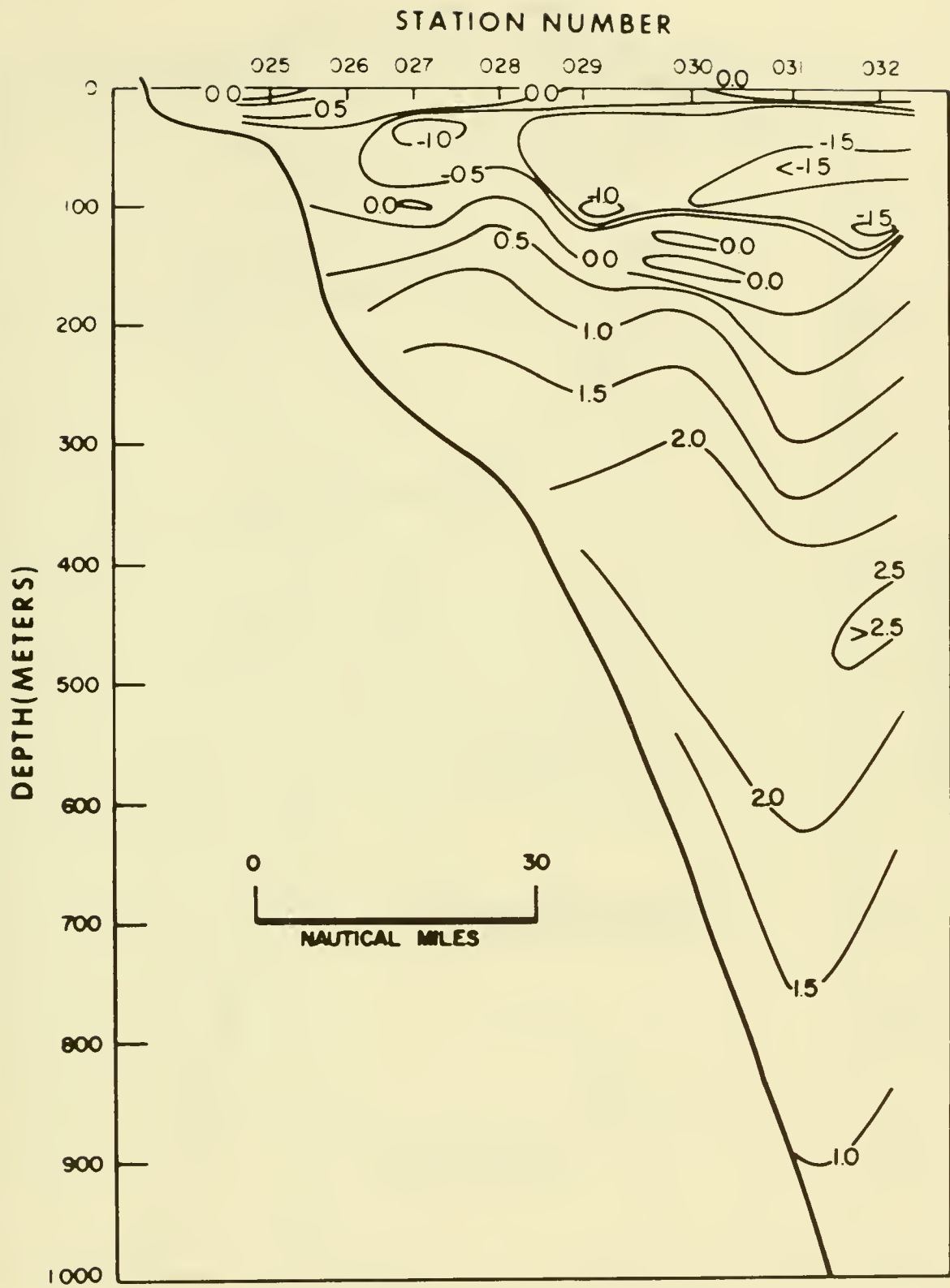


FIGURE 9. Vertical distribution of temperature ($^{\circ}\text{C}$), Section D.

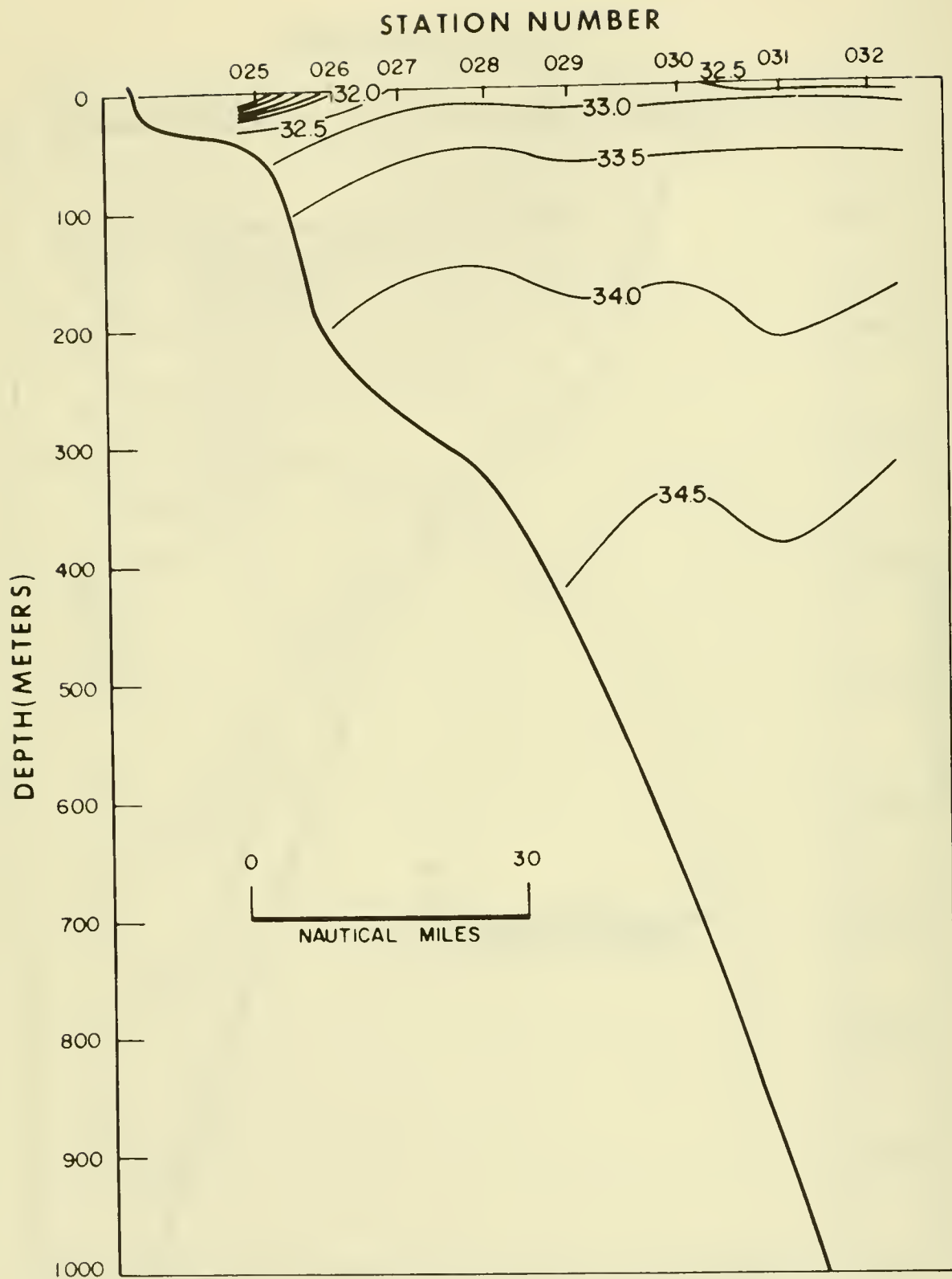


FIGURE 10. Vertical distribution of salinity (‰), Section D.

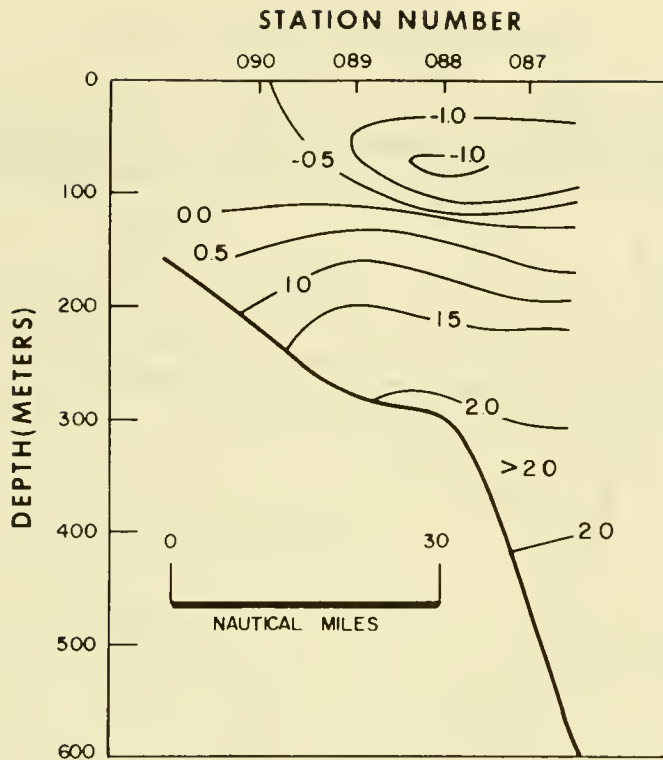


FIGURE 11. Vertical distribution of temperature ($^{\circ}\text{C}$), Section E.

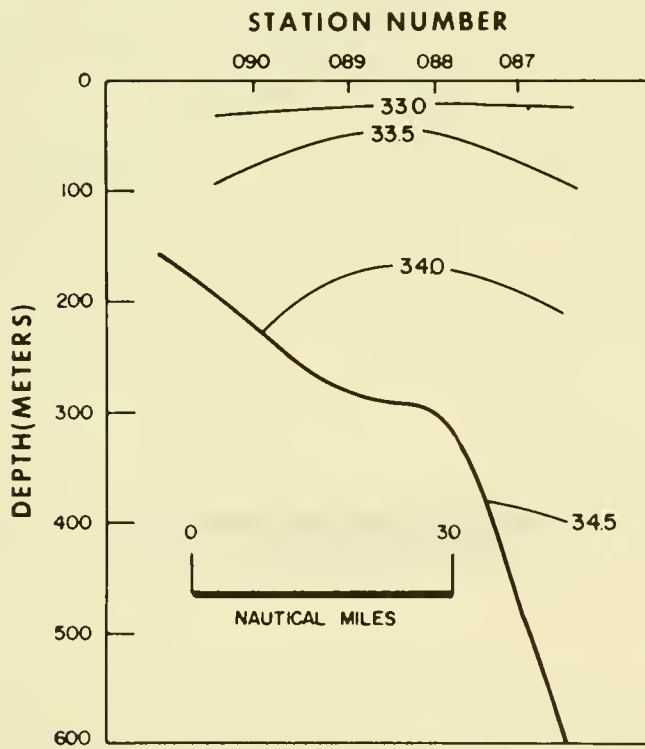


FIGURE 12. Vertical distribution of salinity (‰), Section E.

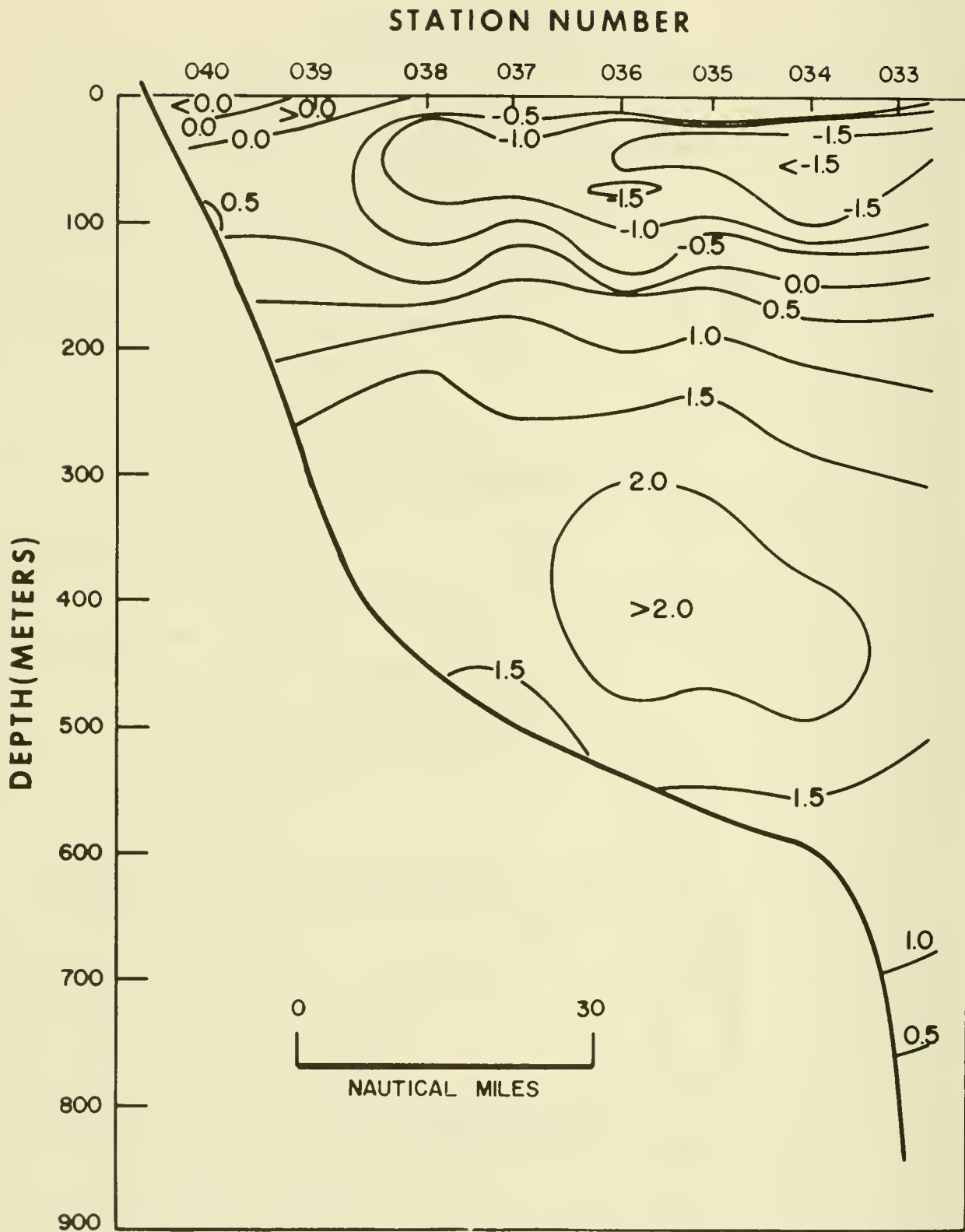


FIGURE 13. Vertical distribution of temperature ($^{\circ}\text{C}$), Section F.

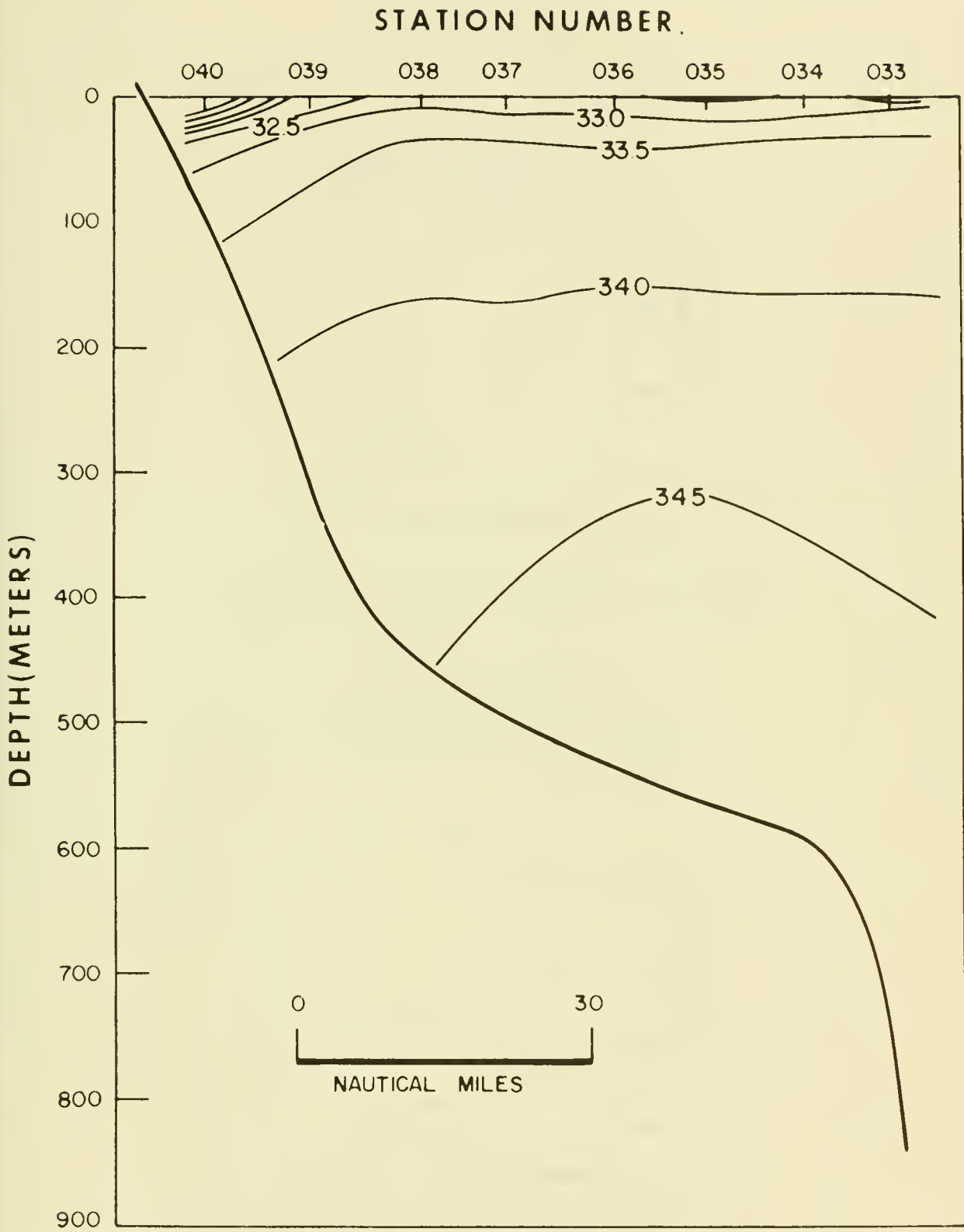


FIGURE 14. Vertical distribution of salinity (‰), Section F.

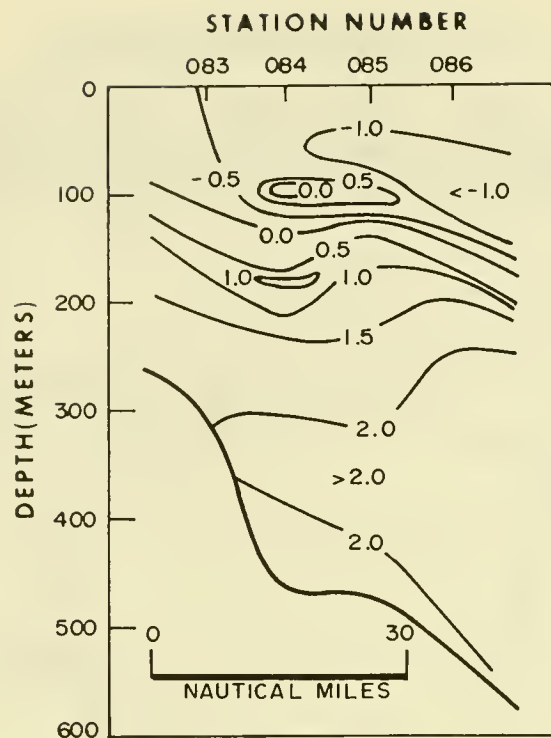


FIGURE 15. Vertical distribution of temperature ($^{\circ}\text{C}$), Section G.

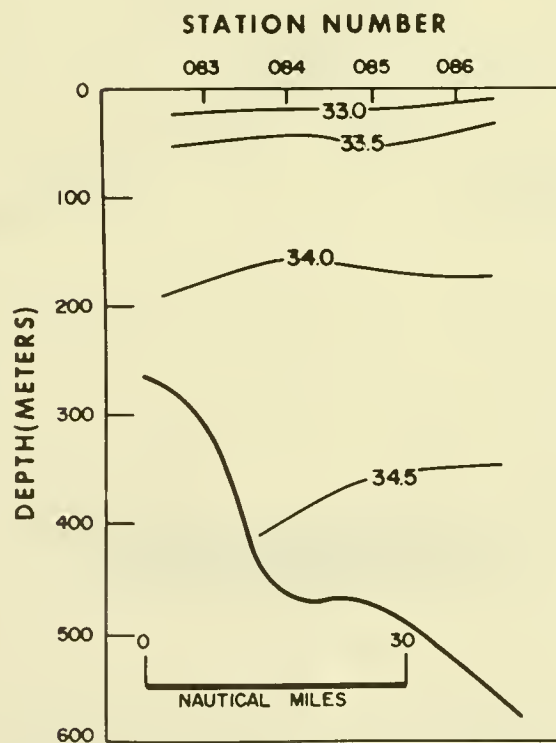


FIGURE 16. Vertical distribution of salinity (‰), Section G.

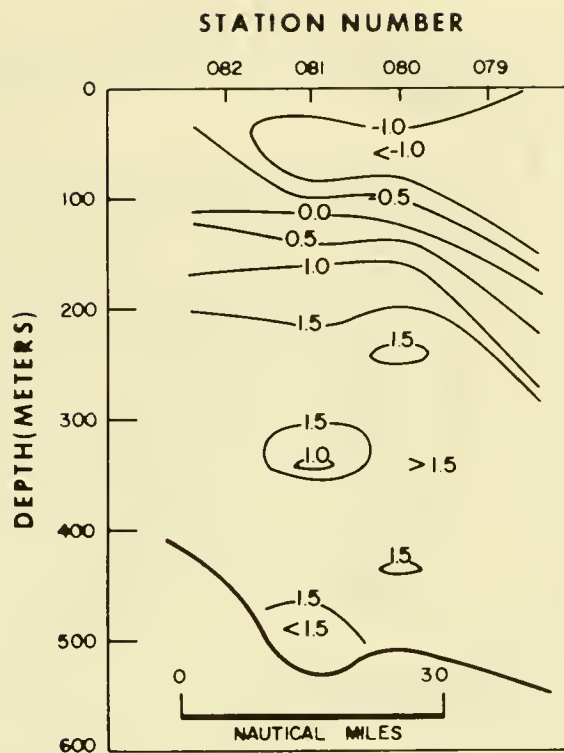


FIGURE 17. Vertical distribution of temperature ($^{\circ}\text{C}$), Section H.

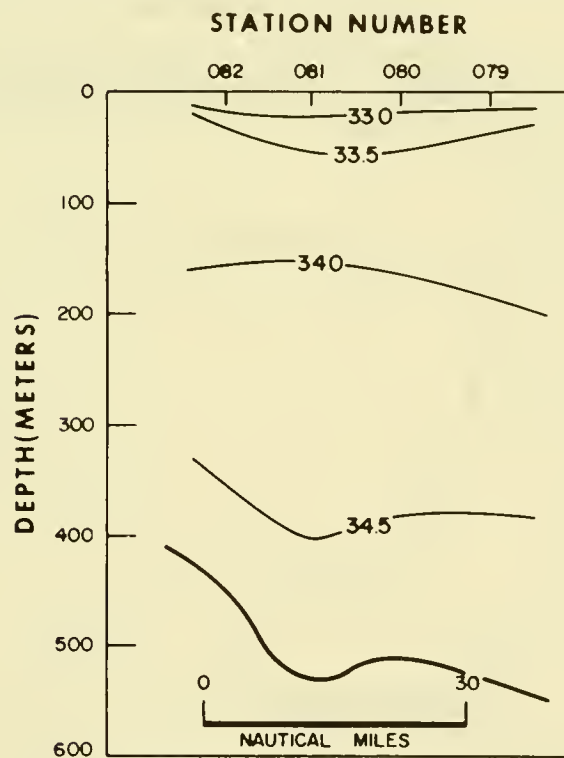


FIGURE 18. Vertical distribution of salinity (‰), Section H.

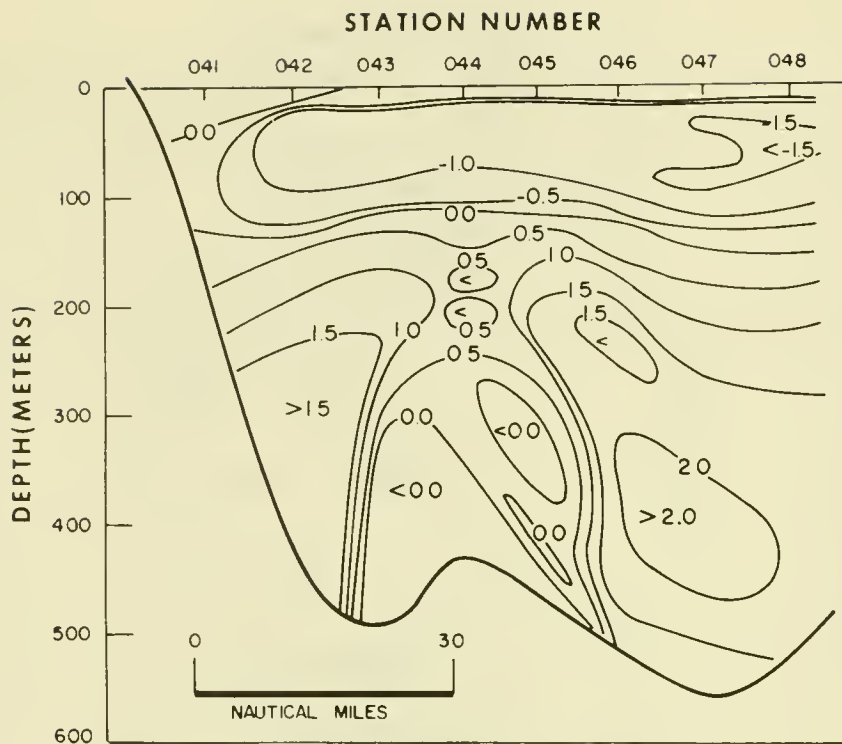


FIGURE 19. Vertical distribution of temperature ($^{\circ}\text{C}$), Section I.

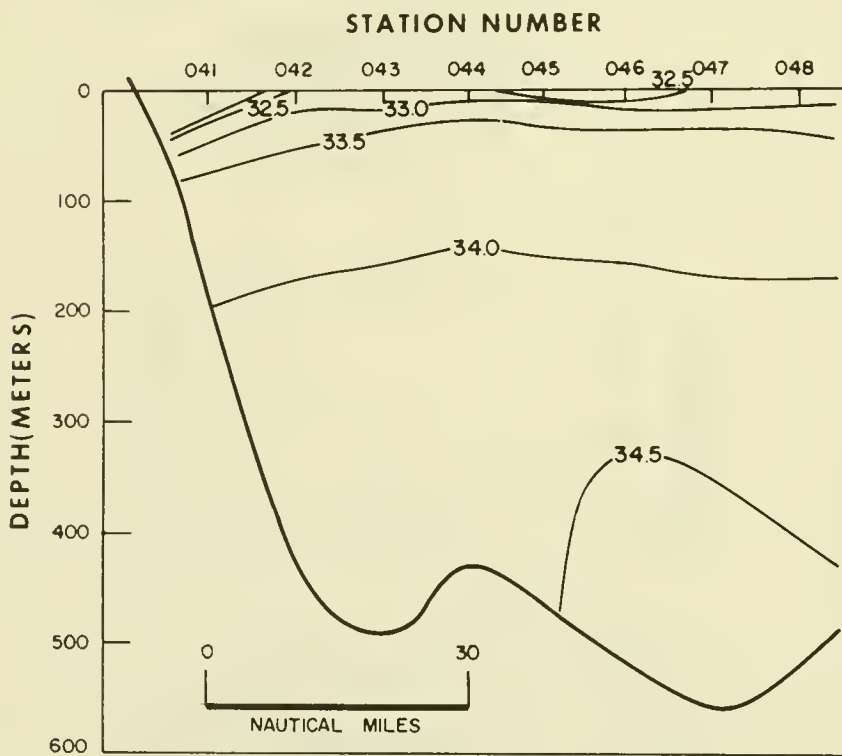


FIGURE 20. Vertical distribution of salinity (‰), Section I.

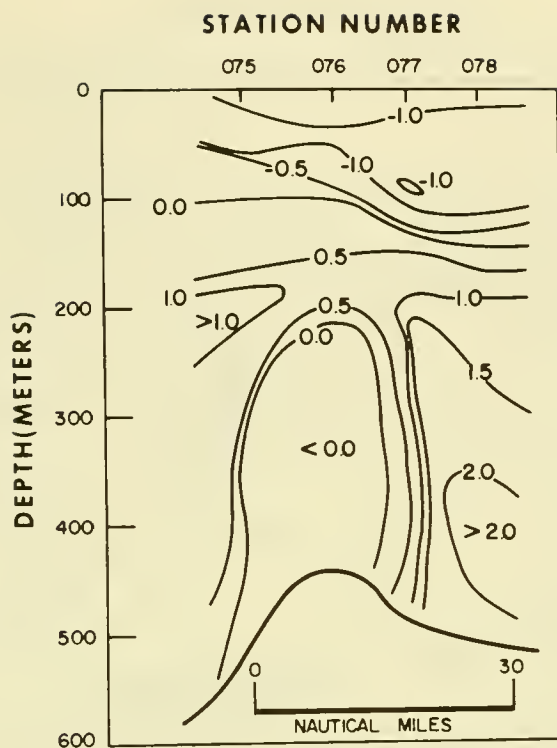


FIGURE 21. Vertical distribution of temperature ($^{\circ}\text{C}$), Section J.

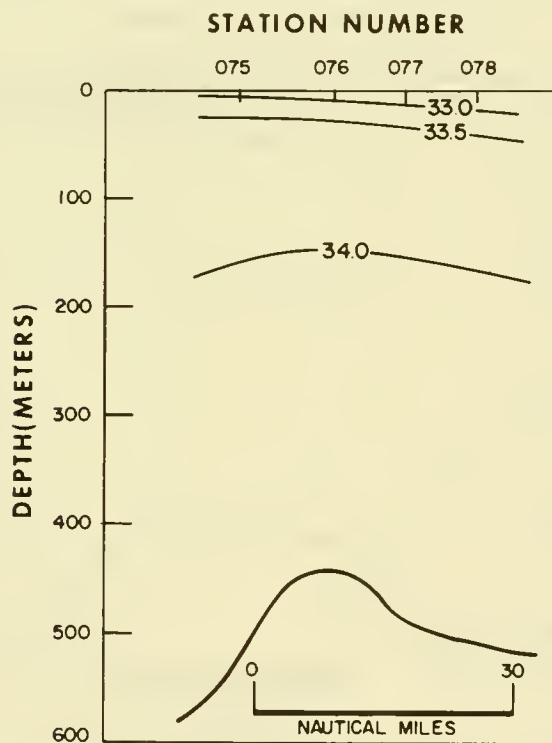


FIGURE 22. Vertical distribution of salinity (‰), Section J.

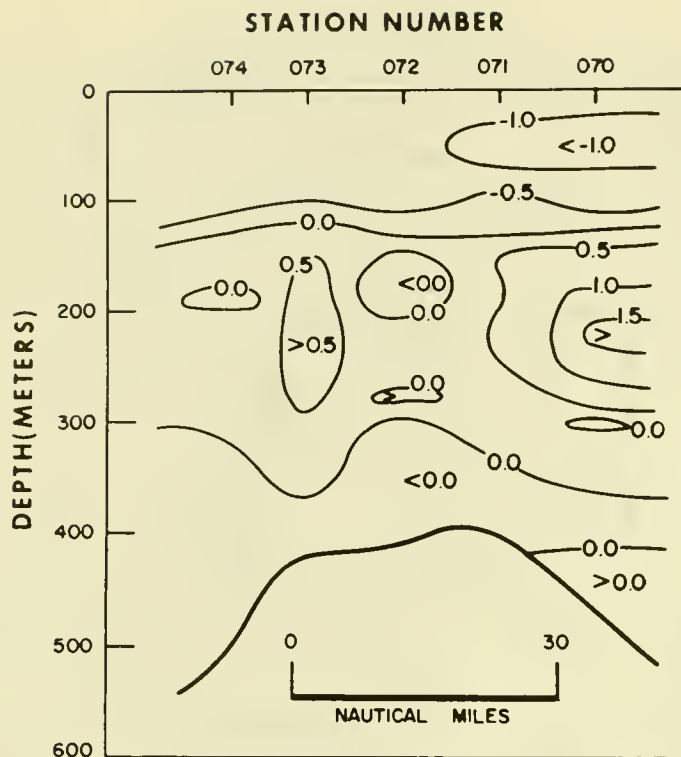


FIGURE 23. Vertical distribution of temperature ($^{\circ}\text{C}$), Section K.

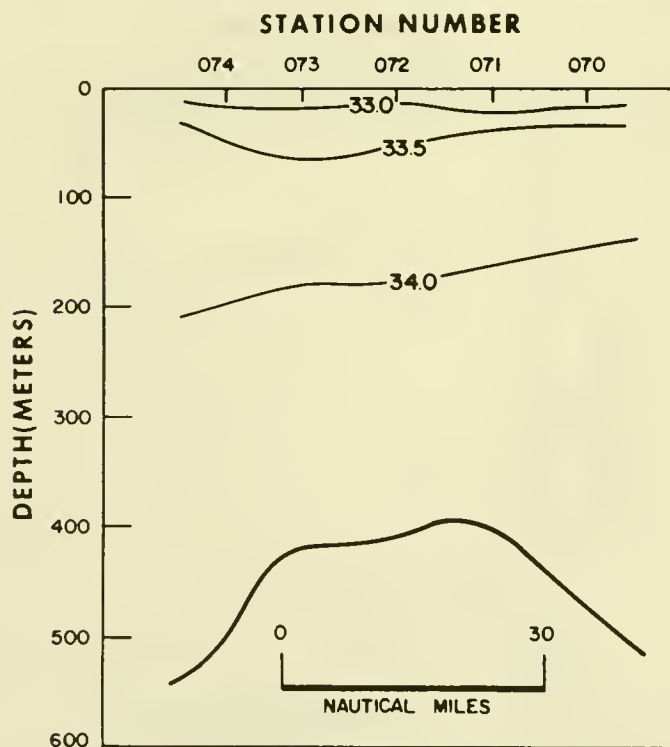


FIGURE 24. Vertical distribution of salinity (‰), Section K.

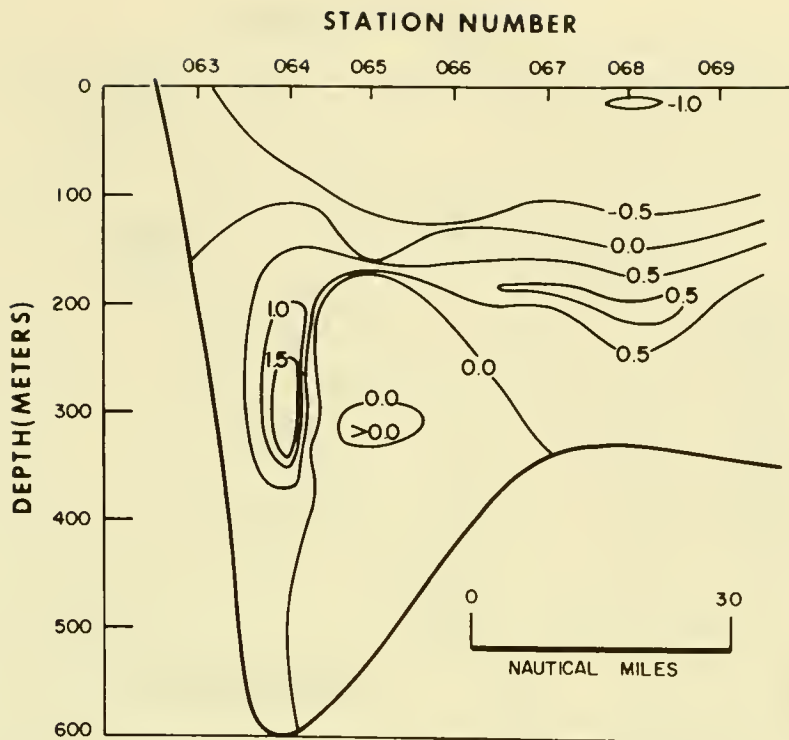


FIGURE 25. Vertical distribution of temperature ($^{\circ}\text{C}$), Section L.

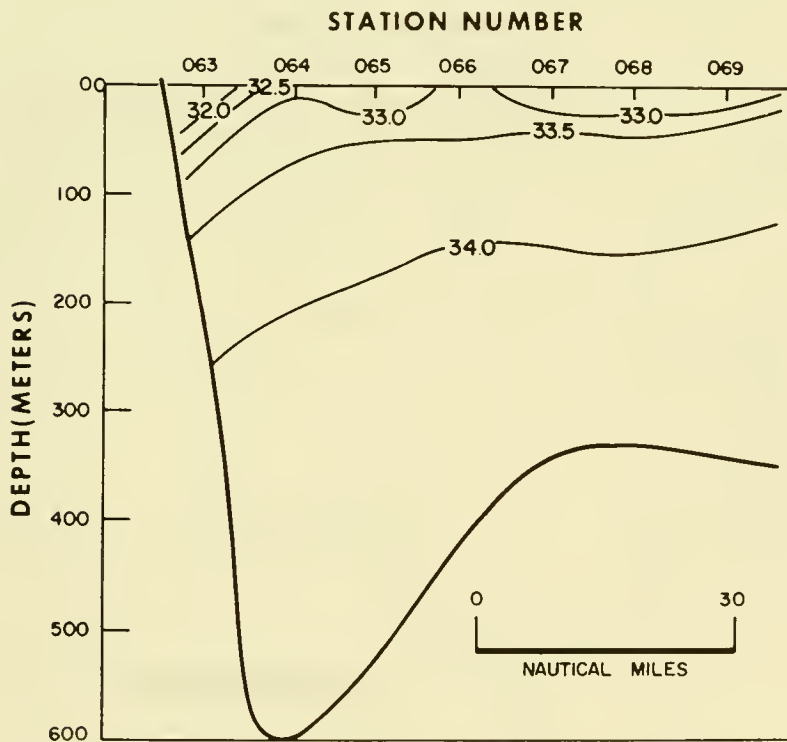


FIGURE 26. Vertical distribution of salinity (‰), Section L.

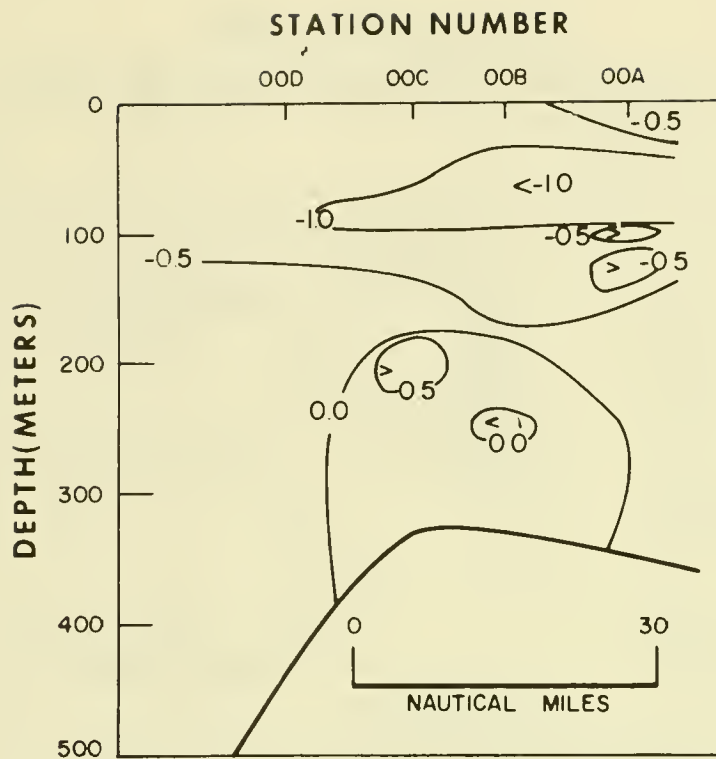


FIGURE 27. Vertical distribution of temperature ($^{\circ}\text{C}$), Section M.

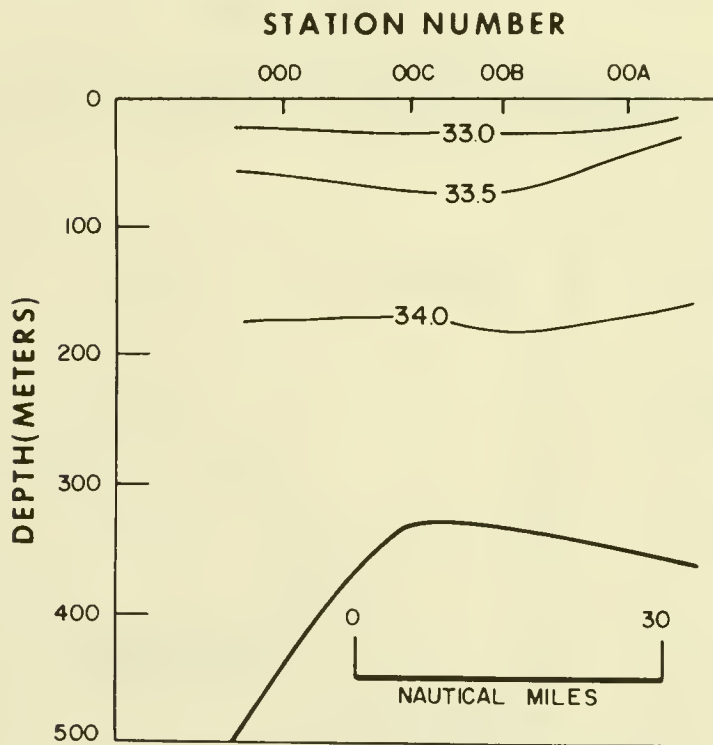


FIGURE 28. Vertical distribution of salinity (‰), Section M.

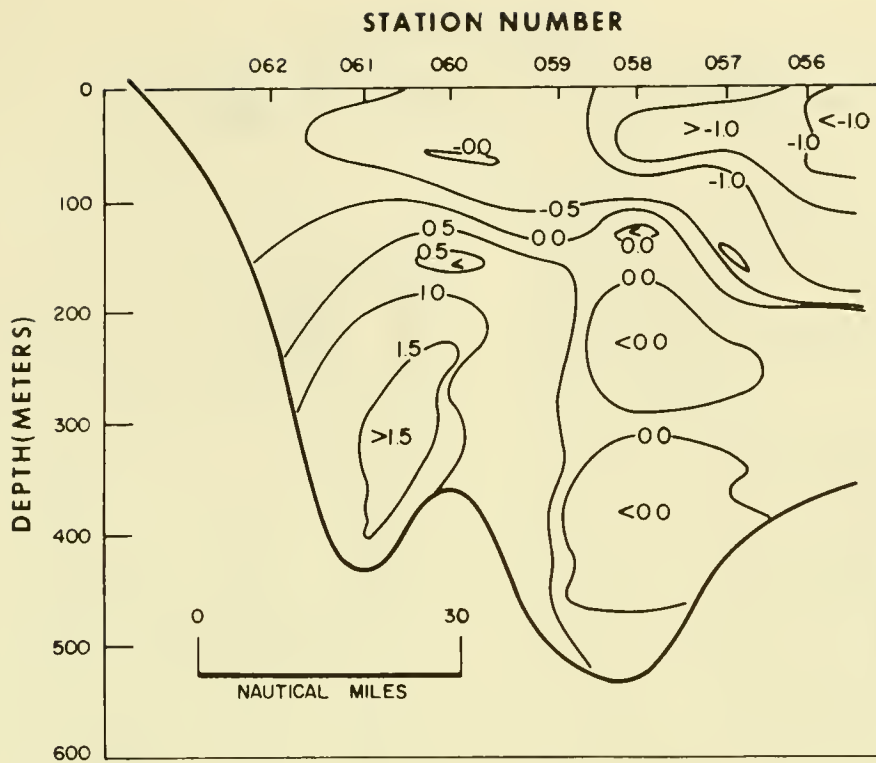


FIGURE 29. Vertical distribution of temperature ($^{\circ}\text{C}$), Section N.

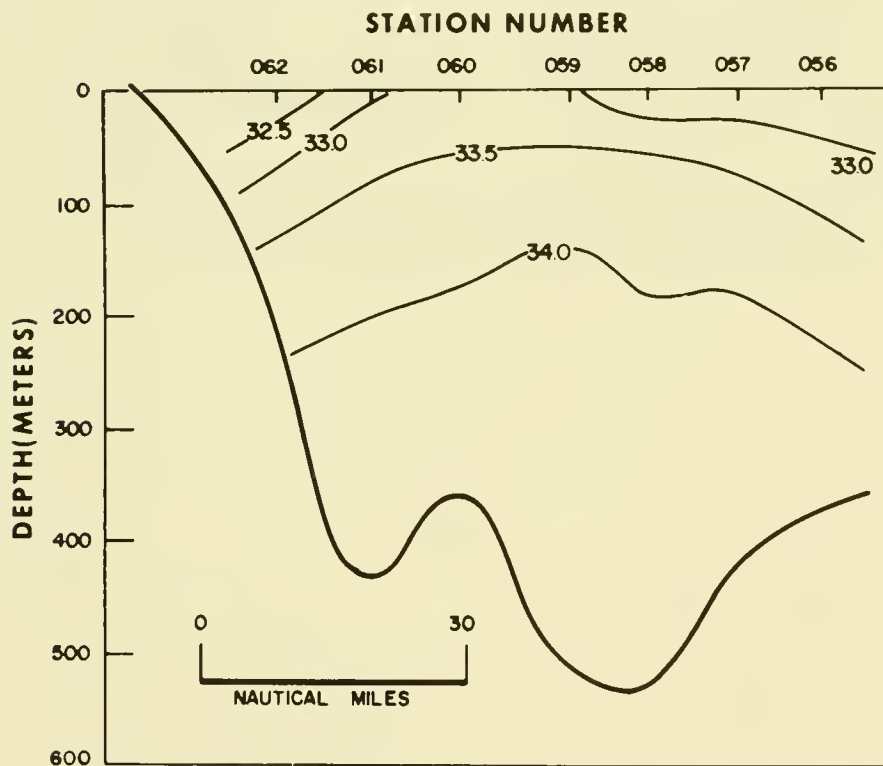


FIGURE 30. Vertical distribution of salinity (‰), Section N.

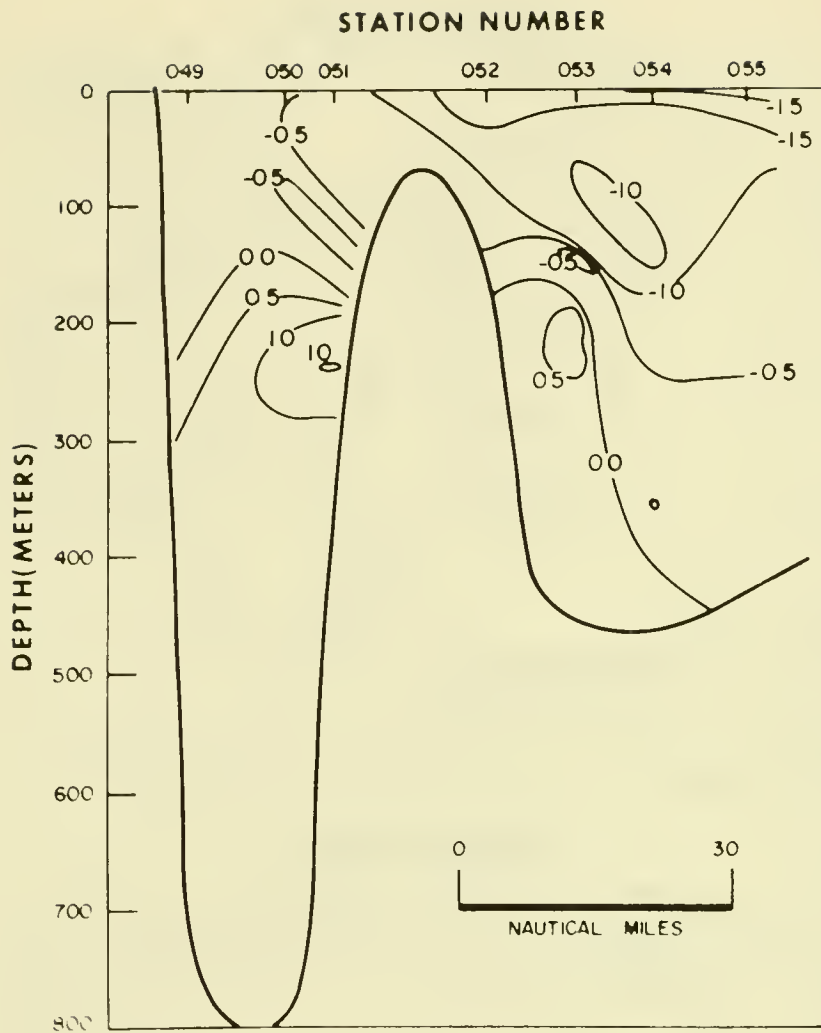


FIGURE 31. Vertical distribution of temperature (°C), Section O.

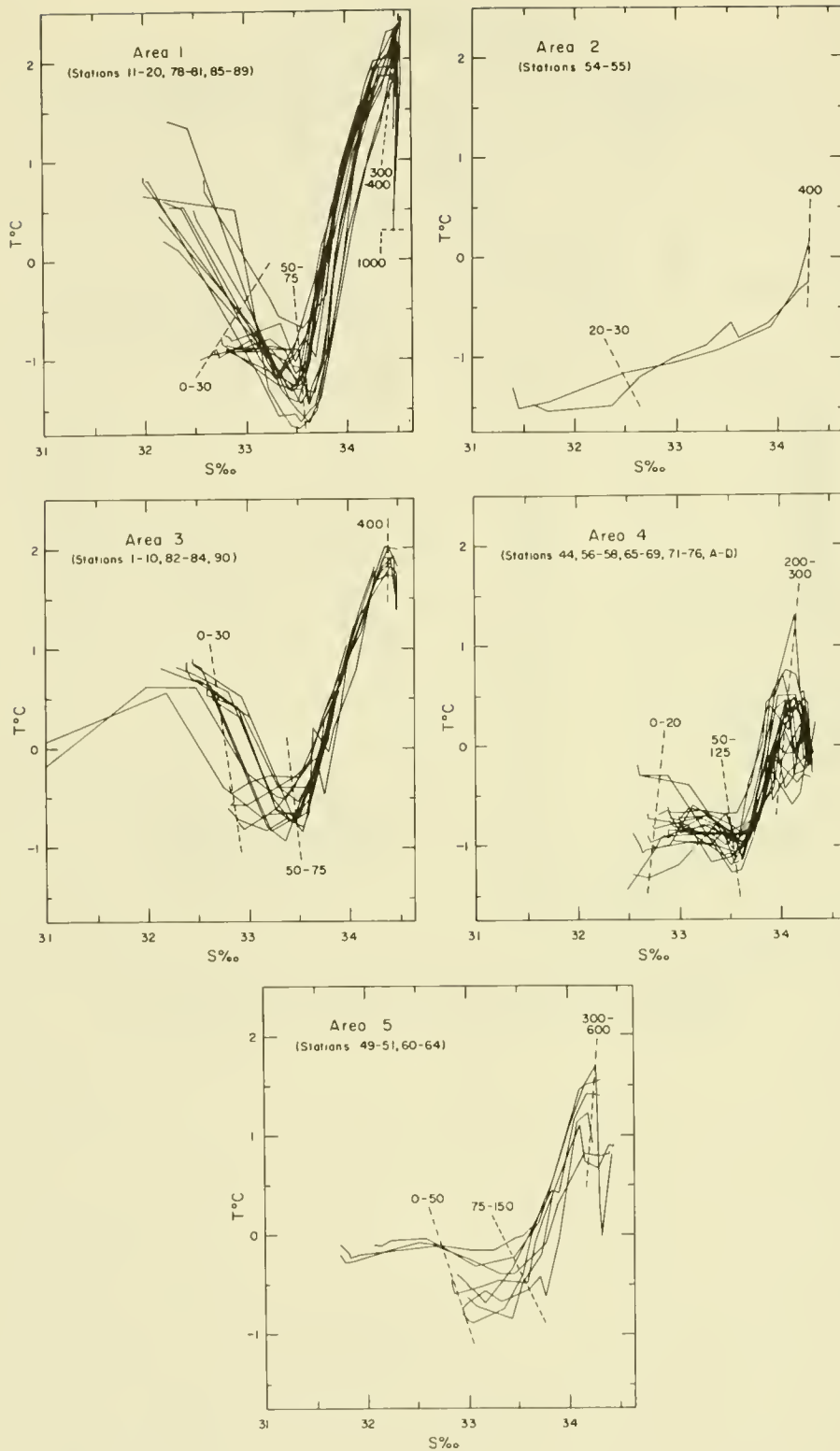


FIGURE 33. Temperature-salinity curves for the areas indicated on Figure 34.

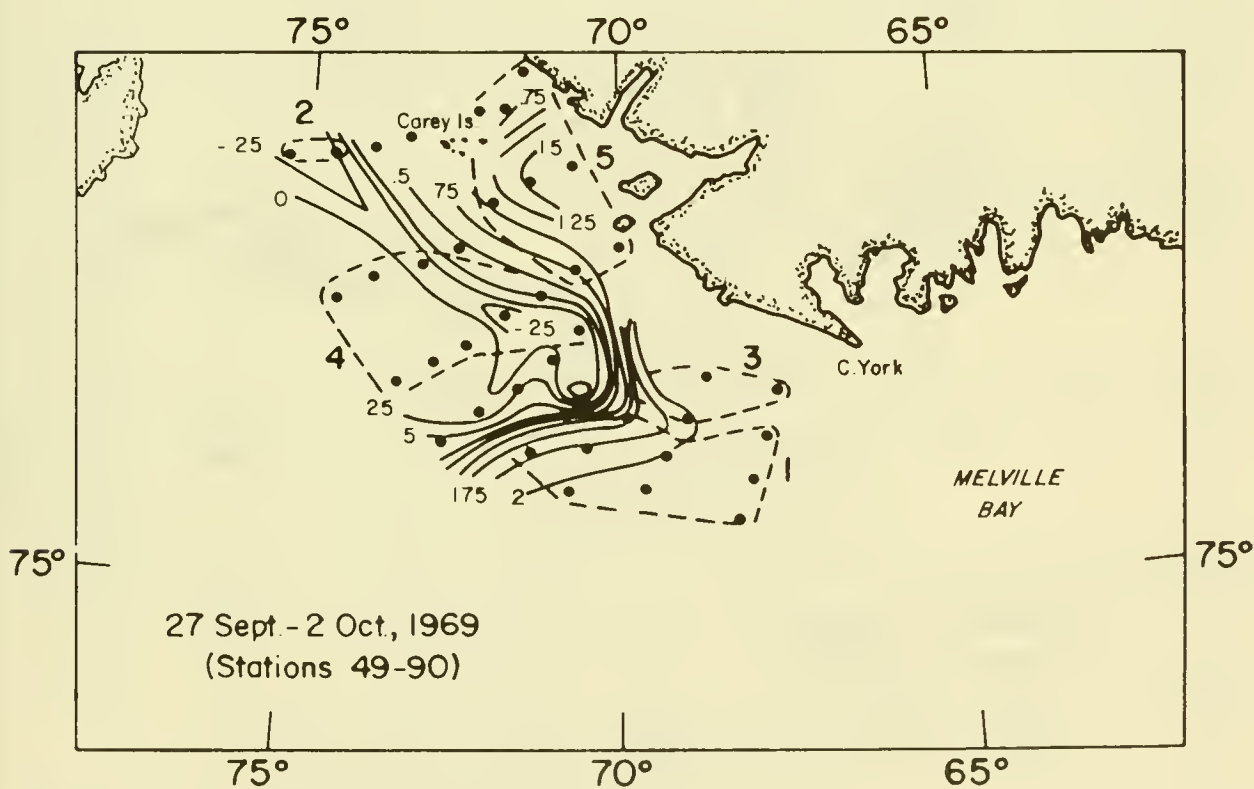
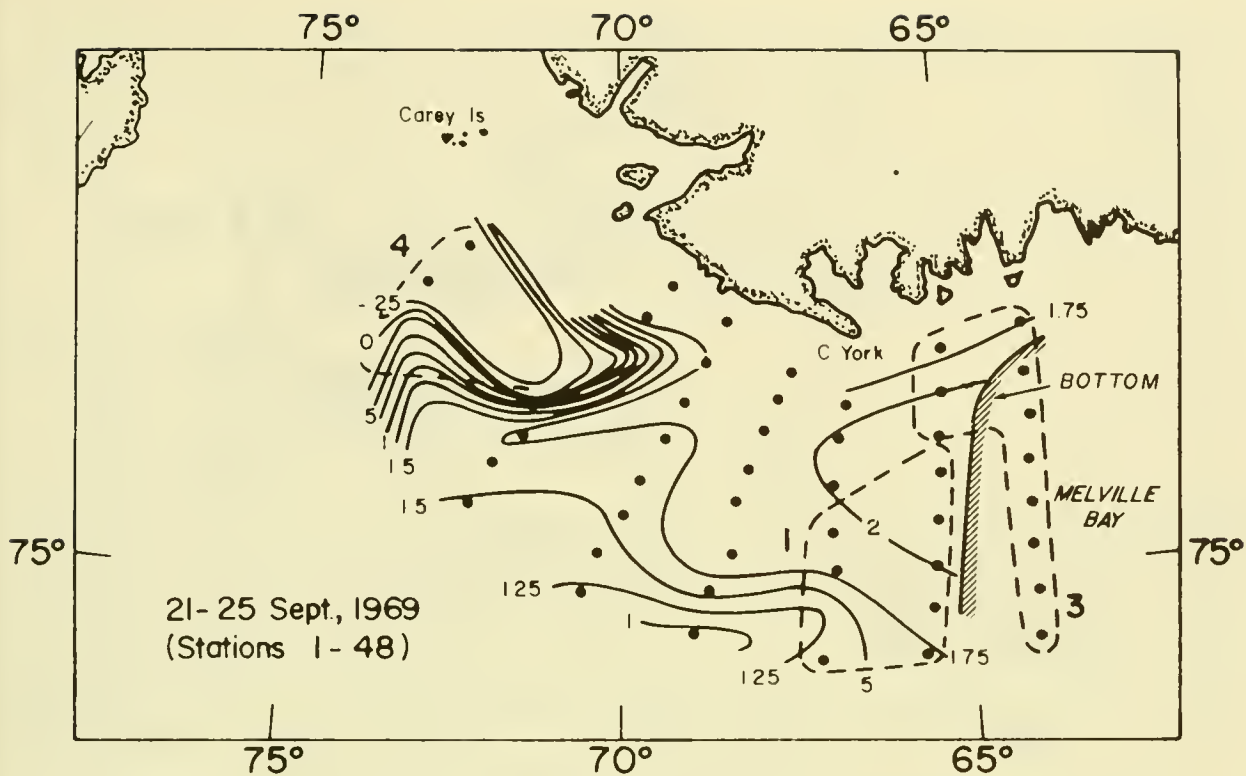


FIGURE 34. Temperature on the 27.5 sigma-t surface, with contour interval of 0.25°C. Numbered areas delineated by dashed lines are represented by correspondingly numbered temperature-salinity curves in Figure 33. Shaded area represents intersection of sigma-t surface with the bottom.

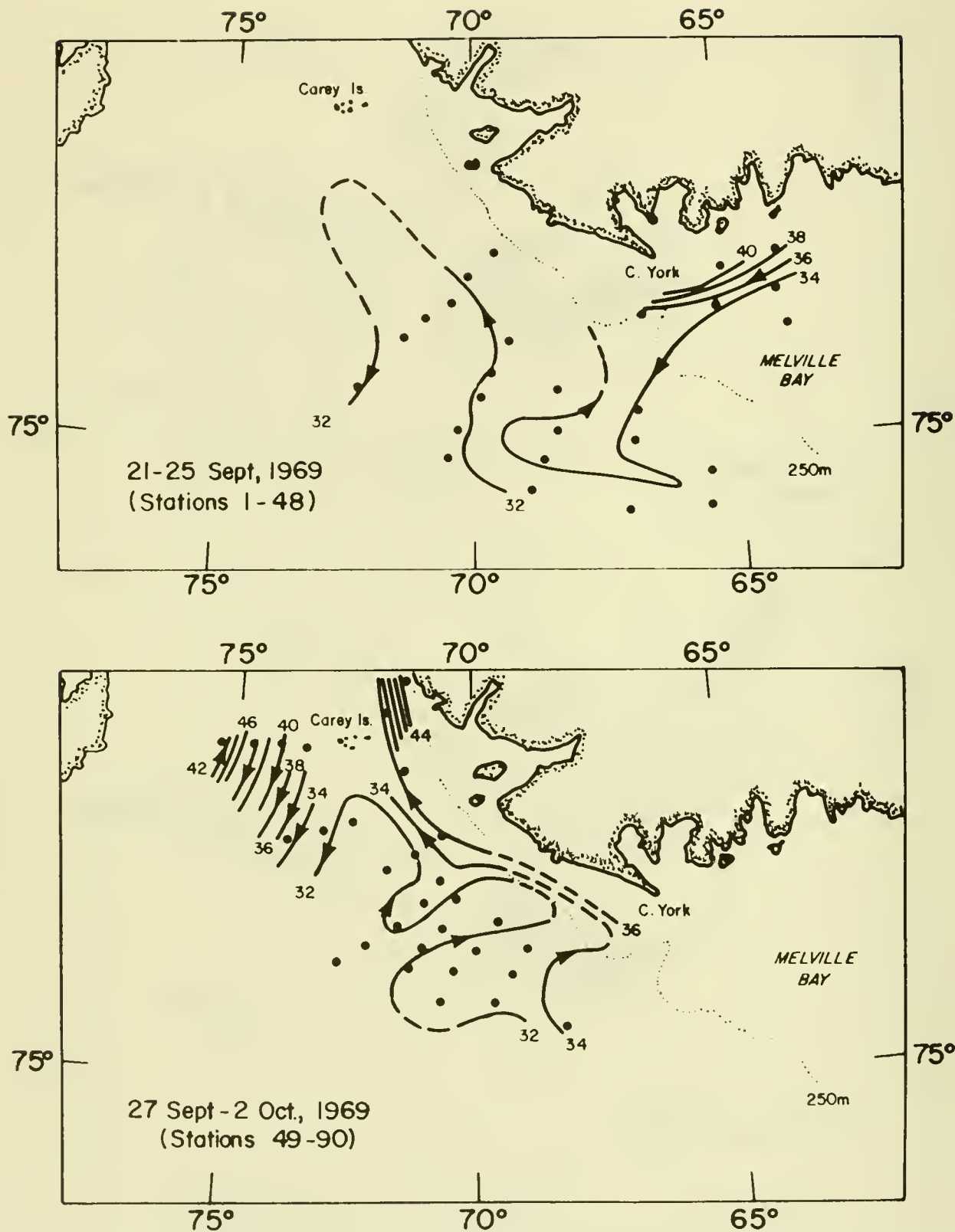


FIGURE 35. Dynamic topographies of the surface relative to 400 db, with contour interval of 2 dyn cm. Dotted line is the 250 m isobath.

APPENDIX A

OCEANOGRAPHIC DATA

Cruises Listed

Table I—University of Washington, May 1969

Table II—USCGC SOUTHWIND, August 1969

Table III—USCGC WESTWIND, September–October 1969

Codes Utilized

A complete description of the codes utilized in the tabulation of oceanographic station data can be found in National Oceanographic Data Center publication M-2, *Processing Physical and Chemical Data from Oceanographic Stations*. (Rev. August 1964, supplement issued May 1966.)

To facilitate use of the oceanographic station data listing, entry headings which are not self-explanatory are described below.

Depth to bottom.....	Corrected or uncorrected sounding in meters.
Max. depth of samples.....	Depth of deepest sample to nearest multiple of one hundred meters.
Wave observations:	
DIR.....	Rounded to nearest multiple of ten degrees.
HGT.....	In increments of $\frac{1}{2}$ m. Sum of 5 meters plus increments of $\frac{1}{2}$ m if 50 is added to direction.
PER.....	If numerals 2 through 9 are entered, period in seconds is twice the numeric entry or $2 \times$ (numeric entry) + 1. For other entries see WMO Code 3155.
SEA.....	Sea state according to WMO Code 3700.
Weather code.....	If preceded by X, weather according to WMO Code 4501. If a two-digit entry, weather according to WMO Code 4677.
Cloud code:	
Type.....	Cloud type according to WMO Code 0500.
Amount.....	Cloud amount in eights. Entry of the numeral 9 indicates cloud amount could not be estimated.
Water:	
Color code.....	Color according to Forel-Ule scale.
Trans.....	Transparency in whole meters as determined by Secchi disc.
Wind:	
Dir.....	Rounded to nearest multiple of ten degrees.
Speed or force.....	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force according to Beaufort scale.
Barometer.....	Barometric pressure given in tens, units and tenths of millibars.
Air temp., °C.....	Air temperature to tenths of a degree centigrade.
Vis. code.....	Visibility according to WMO Code 4300.
No. obs. depths.....	Number of observed levels associated with the station.
Messenger time.....	Entered in hours and tenths of an hour GMT. For Nansen casts, indicates time of release of messenger applicable to the observational level. For STD casts, indicates the starting time of lowering the sensor.
Card type.....	OBS designates observed levels. STD indicates the values at this standard level were interpolated by a modified 3-point LaGrange formula.
Depth (m).....	Depth to nearest meter. A postscript T indicates depth was obtained thermometrically; Z indicates uncorrected "wire out" depth. Postscript Q indicates value was marked doubtful by originator; P indicates value was considered doubtful by NODC. Postscripts P and Q retain this meaning throughout the following entries.
T °C.....	Temperature to hundredths of a degree Centigrade.
S ‰.....	Salinity in parts-per-thousand.
SIGMA-T.....	Entered to hundredths.
Specific-volume.....	Multiply entry by 10^{-7} to obtain specific-volume anomaly in cubic centimeters per gram.

Anomaly—X 10 ⁷	
ΣΔD Dyn. M. X 10 ³ -----	Multiply entry by 10 ⁻³ to obtain anomaly of dynamic height in dynamic meters referenced to the sea surface.
Sound velocity-----	Sound velocity according to Wilson's formula entered to tenths of a meter persecond.
O ₂ ml/l-----	Dissolved oxygen in milliliters per liter entered to hundredths.
PO ₄ —P μg-at/l-----	Inorganic phosphate in microgram-atoms per liter entered to hundredths.
Total-P μg-at/l-----	Total phosphorus in microgram-atoms per liter entered to hundredths.
NO ₂ -N μg-at/l-----	Nitrite-nitrogen in microgram-atoms per liter entered to hundredths.
NO ₃ -N μg-at/l-----	Nitrate-nitrogen in microgram-atoms per liter entered to tenths.
SiO ₄ -Si μg-at/l-----	Silicate-silicon in microgram-atoms per liter entered to whole units.
pH-----	Entered to hundredths.

TABLE I. Observed and interpolated oceanographic data from stations taken from an ice camp in Kane Basin, 7-20 May 1969, prepared from NODC Listing No. 31-1506.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	07	208	1969	KB2	001						0		0001	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									00	500	230		8	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH			
208		OBS	0025	-0176	32751	2637					14384										
		STD	0030	-0178	3275	2637		0016575			14383										
		STD	0050	-0180	3275	2638		0016539			14386										
208		OBS	0050	-0180	32754	2638					14386										
		STD	0075	-0174	3290	2649		0015447			14395										
208		OBS	0075	-0174	32895	2649					14395										
		STD	0100	-0160	3304	2661		0014324			14408										
208		OBS	0100	-0160	33043	2661					14408										
		STD	0125	-0102	3331	2681		0012438			14443										
		STD	0150	-0062	3362	2704		0010197			14470										
208		OBS	0150	-0062	33622	2704					14470										
		STD	0200	-0037	3442	2768		0004232			14501										
208		OBS	0200	-0037	34418	2768					14501										
208		OBS	0230	-0015	34563	2778					14518										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	08	042	1969	KB2	002					28	8		0002	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									00	500	224	-170	2	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH			
042		OBS	0025	-0175	32751	2637					14384										
		STD	0030	-0176	3275	2637		0016618			14384										
		STD	0050	-0177	3273	2636		0016729			14387										
042		OBS	0050	-0177	32730	2636					14387										
		STD	0075	-0171	3289	2648		0015523			14396										
042		OBS	0075	-0171	32886	2648					14396										
		STD	0100	-0156	3286	2646		0015715			14407										
042		OBS	0100	-0156	32863	2646					14407										
		STD	0125	-0106	3364	2707		0009900			14446										
		STD	0150	-0069	3417	2749		0005979			14474										
042		OBS	0150	-0069	34171	2749					14474										
		STD	0200	-0032	3447	2771		0003899			14504										
042		OBS	0200	-0032	34465	2771					14504										
042		OBS	0230	-0016	34523	2775					14517										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311506			79160N	072480W	260	92	05	08	129	1969	KB2	003					9			0003	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
									00	500	230	-110	5	07							
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH			
129		OBS	0025	-0160	32731	2635					14391										
		STD	0030	-0161	3273	2635		0016780			14391										
		STD	0050	-0162	3273	2635		0016792			14394										
129		OBS	0050	-0162	32726	2635					14394										
		STD	0075	-0160	3283	2644		0015948			14401										
129		OBS	0075	-0160	32834	2644					14401										
		STD	0100	-0155	3303	2660		0014414			14410										
129		OBS	0100	-0155	33033	2660					14410										
		STD	0125	-0094	3376	2717		0009027			14453										
		STD	0150	-0052	3424	2754		0005535			14483										
129		OBS	0150	-0052	34239	2754					14483										
		STD	0200	-0029	3446	2771		0003921			14505										
129		OBS	0200	-0029	34464	2771					14505										
129		OBS	0230	-0003	34538	2776					14523										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W	260	92	05	08	201	1969		K82	004	0237						3		0004	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB							
									28	502	220	-040			07								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOOC STATION NUMBER					
201	OBS	0025	-0180	3274.3	2637					14382													
	STD	0030	-0180	3275	2638	0016571				14382													
	STD	0050	-0181	3279	2640	0016275				14386													
201	OBS	0050	-0181																				
	STD	0075	-0175	3283	2644	0015921				14393													
201	OBS	0075	-0175	3283.3	2644					14393													
	STD	0100	-0169	3302	2659	0014486				14403													
201	OBS	0100	-0169	3301.9	2659					14403													
	STD	0125	-0116	3372	2714	0009253				14442													
	STD	0150	-0074	3421	2752	0005698				14473													
201	OBS	0150	-0074	3420.5	2752					14473													
	STD	0200	-0025	3450	2774	0003675				14508													
201	OBS	0200	-0025	3449.9	2774					14508													
201	OBS	0230	-0018	34560	2778					14517													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W	260	92	05	09	025	1969		K82	005	0237						1		0005	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB							
									30	501	224	-122			8	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOOC STATION NUMBER					
025	OBS	0025	-0181	32730	2636					14381													
	STD	0030	-0181	3273	2636	0016761				14382													
	STD	0050	-0181	3272	2635	0016829				14385													
025	OBS	0050	-0181	3271.6	2635					14385													
	STD	0075	-0173	3287	2647	0015626				14395													
025	OBS	0075	-0173	3287.2	2647					14395													
	STD	0100	-0169	3298	2656	0014770				14403													
025	OBS	0100	-0169	3298.2	2656					14403													
	STD	0125	-0099	3377	2718	0008932				14451													
	STD	0150	-0052	3424	2754	0005558				14483													
025	OBS	0150	-0052	3423.6	2754					14483													
	STD	0200	-0027	3421	2750	0005894				14503													
025	OBS	0200	-0027	3420.6	2750					14503													
025	OBS	0230	-0011	34571	2779					14520													

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	1/2° SDCN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W	260	92	05	09	041	1969		K82	006	0237						28	1	0006	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB							
									30	501	224	-122			2	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOOC STATION NUMBER					
042	OBS	0025	-0182	32700	2633					14380													
	STD	0030	-0182	3271	2634	0016929				14381													
	STD	0050	-0182	3273	2636	0016742				14384													
042	OBS	0050	-0182	3272.7	2636					14384													
	STD	0075	-0175	3289	2649	0015452				14394													
042	OBS	0075	-0175	3289.4	2649					14394													
	STD	0100	-0170	3298	2656	0014799				14402													
042	OBS	0100	-0170	3297.8	2656					14402													
	STD	0125	-0101	3377	2718	0008924				14450													
	STD	0150	-0054	3428	2757	0005221				14483													
042	OBS	0150	-0054	3427.9	2757					14483													
	STD	0200	-0027	3446	2770	0003969				14506													
042	OBS	0200	-0027	3445.9	2770					14506													
042	OBS	0230	-0016	34540	2776					14517													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INDIC	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DR.	HGT		PER	SEA
311506			79160N	072480W	260	92	05 09 128	1969	KB2	007	0237					43	X 19	0007			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
								00	500	237	-081		5	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C			
128	OBS	0025	-0182	32727	2636					14380											
	STD	0030	-0182	3272	2635	0016783				14381											
	STD	0050	-0181	3271	2634	0016875				14385											
128	OBS	0050	-0181	32710	2634					14385											
	STD	0075	-0173	3281	2642	0016125				14394											
128	OBS	0075	-0173	32807	2642					14394											
	STD	0100	-0151	3303	2659	0014463				14412											
128	OBS	0100	-0151	33028	2659					14412											
	STD	0125	-0110	3358	2703	0010345				14443											
	STD	0150	-0076	3400	2735	0007285				14469											
128	OBS	0150	-0076	33996	2735					14469											
	STD	0200	-0027	3442	2767	0004274				14506											
128	OBS	0200	-0027	34419	2767					14506											
128	OBS	0230	-0017	34561	2778					14517											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INDIC	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DR.	HGT		PER	SEA
311506			79160N	072480W	260	92	05 09 200	1969	KB2	008	0237						1	0008			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
								00	500	230	060		8	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C			
200	OBS	0025	-0176	32733	2636					14383											
	STD	0030	-0176	3273	2636	0016718				14384											
	STD	0050	-0176	3274	2636	0016685				14387											
200	OBS	0050	-0176	32736	2636					14387											
	STD	0075	-0173	3282	2643	0016048				14394											
200	OBS	0075	-0173	32817	2643					14394											
	STD	0100	-0160	3298	2655	0014815				14407											
200	OBS	0100	-0160	32979	2655					14407											
	STD	0125	-0119	3362	2706	0010008				14439											
	STD	0150	-0083	3409	2743	0006508				14467											
200	OBS	0150	-0083	34094	2743					14467											
	STD	0200	-0024	3452	2775	0003506				14508											
200	OBS	0200	-0024	34522	2775					14508											
200	OBS	0235	-0014	34566	2778					14519											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INDIC	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DR.	HGT		PER	SEA
311506			79160N	072480W	260	92	05 09 221	1969	KB2	009	0237						4	0009			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (ml)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB									
								00	500	261	-067		8	07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C C			
221	OBS	0025	-0182	32723	2635					14380											
	STD	0030	-0182	3272	2635	0016799				14381											
	STD	0050	-0180	3272	2635	0016800				14385											
221	OBS	0050	-0180	32720	2635					14385											
	STD	0075	-0172	3277	2639	0016411				14394											
221	OBS	0075	-0172																		
	STD	0100	-0157	3301	2658	0014554				14409											
221	OBS	0100	-0157	33014	2658					14409											
	STD	0125	-0118	3364	2708	0009859				14440											
	STD	0150	-0082	3409	2743	0006520				14467											
221	OBS	0150	-0082	34093	2743					14467											
	STD	0200	-0022	3449	2773	0003759				14509											
221	OBS	0200	-0022	34490	2773					14509											
221	OBS	0235	-0013	34580	2779					14520											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	1/2 SOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W		260	92	05	10	044	1969	KB2	010	0237					28	X	9		0010
						WATER		WIND		AIR TEMP. °C												SPECIAL OBSERVATIONS	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
									00	500	-170		2	07									

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	STATION NUMBER
044	OBS	0025	-0179	32737	2636				14382								
	STD	0030	-0179	3274	2636	0016696			14383								
	STD	0050	-0179	3273	2636	0016725			14386								
044	OBS	0050	-0179	32730	2636				14386								
	STD	0075	-0169	3286	2646	0015727			14397								
044	OBS	0075	-0169	32860	2646				14397								
	STD	0100	-0161	3296	2654	0014959			14406								
044	OBS	0100	-0161	32960	2654				14406								
	STD	0125	-0094	3371	2713	0009409			14452								
	STD	0150	-0047	3423	2753	0005649			14485								
044	OBS	0150	-0047	34227	2753				14485								
	STD	0200	-0014	3457	2779	0003170			14514								
044	OBS	0200	-0014	34573	2779				14514								
044	OBS	0235	-0008	34611	2782				14523								

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	1/2 SOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W		260	92	05	10	126	1969	KB2	011	0237									0011
						WATER		WIND		AIR TEMP. °C												SPECIAL OBSERVATIONS	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
									00	500	288	-090		7	07								

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	STATION NUMBER
124	OBS	0025	-0186	32712	2634				14378								
	STD	0030	-0184	3264	2629	0017425			14379								
	STD	0050	-0178	3254	2620	0018180			14384								
124	OBS	0050	-0178	32541	2620				14384								
	STD	0075	-0172	3280	2642	0016150			14394								
124	OBS	0075	-0172	32804	2642				14394								
	STD	0100	-0160	3294	2653	0015092			14406								
124	OBS	0100	-0160	32943	2653				14406								
	STD	0125	-0091	3369	2711	0009573			14453								
	STD	0150	-0043	3421	2751	0005767			14487								
124	OBS	0150	-0043	34214	2751				14487								
	STD	0200	-0009	3462	2782	0002861			14517								
124	OBS	0200	-0009	34617	2782				14517								
124	OBS	0235	-0007	34615	2782				14523								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	1/2 SOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W	260	92	05	10	166	1969	KB2	012	0237								2		0012
						WATER		WIND		AIR TEMP. °C												SPECIAL OBSERVATIONS	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
									00	504	288	-100		8	07								

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta \sigma$ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	STATION NUMBER
166	OBS	0025	-0173	32714	2634				14384								
	STD	0030	-0176	3272	2634	0016864			14384								
	STD	0050	-0179	3272	2635	0016802			14386								
166	OBS	0050	-0179	32720	2635				14386								
	STD	0075	-0168	3281	2642	0016129			14396								
166	OBS	0075	-0168	32808	2642				14396								
	STD	0100	-0164	3294	2652	0015105			14404								
166	OBS	0100	-0164	32940	2652				14404								
	STD	0125	-0095	3365	2708	0009864			14451								
	STD	0150	-0046	3417	2748	0006081			14485								
166	OBS	0150	-0046	34171	2748				14485								
	STD	0200	-0007	3462	2783	0002819			14518								
166	OBS	0200	-0007	34624	2783				14518								
166	OBS	0235	-0007	34620	2782				14523								

TABLE I.—Continued

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	SQUEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506		79160N	072480W	260	92	05	10	199	1969		KB2	013	0237					42	5		0013	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								06	505	288	-096		7	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER					
199	OBS	0025	-0181	32728	2636				14381													
	STD	0030	-0180	3273	2636		0016755		14382													
	STD	0050	-0178	3273	2636		0016727		14386													
199	OBS	0050	-0178	32730	2636				14386													
	STD	0075	-0168	3280	2641		0016205		14396													
199	OBS	0075	-0168	32798	2641				14396													
	STD	0100	-0162	3294	2652		0015133		14405													
199	OBS	0100	-0162	32937	2652				14405													
	STD	0125	-0094	3367	2709		0009714		14452													
	STD	0150	-0046	3419	2749		0005944		14485													
199	OBS	0150	-0046	34189	2749				14485													
	STD	0200	-0008	3461	2782		0002897		14517													
199	OBS	0200	-0008	34613	2782				14517													
199	OBS	0235	-0006	34625	2783				14524													

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	SQUEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506		79160N	072480W	260	92	05	11	042	1969		KB2	014	0237					42			0014
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB										
									288			4	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER				
042	OBS	0025	-0178	32721	2635				14382												
	STD	0030	-0179	3272	2635		0016788		14383												
	STD	0050	-0180	3274	2636		0016669		14386												
042	OBS	0050	-0180	32737	2636				14386												
	STD	0075	-0171	3285	2645		0015807		14396												
042	OBS	0075	-0171	32849	2645				14396												
	STD	0100	-0152	3304	2660		0014360		14411												
042	OBS	0100	-0152	33041	2660				14411												
	STD	0125	-0100	3378	2719		0008851		14450												
	STD	0150	-0060	3428	2758		0005172		14480												
042	OBS	0150	-0060	34282	2758				14480												
	STD	0200	-0015	3456	2778		0003233		14513												
042	OBS	0200	-0015	34564	2778				14513												
042	OBS	0235	-0008	34619	2782				14523												

REFERENCE CITY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCHES	SQUEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311506		79160N	072480W	260	92	05	11	121	1969		KB2	015	0237					43	8		0015	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	DRY BULB	WET BULB											
								33	504	268	-110		5	07								
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER					
121	OBS	0025	-0179	32721	2635				14382													
	STD	0030	-0180	3272	2635		0016810		14382													
	STD	0050	-0181	3272	2635		0016775		14385													
121	OBS	0050	-0181	32723	2635				14385													
	STD	0075	-0173	3280	2641		0016171		14394													
121	OBS	0075	-0173	32801	2641				14394													
	STD	0100	-0167	3295	2653		0015021		14403													
121	OBS	0100	-0167	32950	2653				14403													
	STD	0125	-0100	3363	2706		0009998		14448													
	STD	0150	-0052	3413	2745		0006381		14482													
121	OBS	0150	-0052	34128	2745				14482													
	STD	0200	-0011	3460	2781		0003011		14515													
121	OBS	0200	-0011	34596	2781				14515													
121	OBS	0235	-0007	34628	2783				14523													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311506			79160N	072480W	260	92	05	11	200	1969	K82	016	0237					48	5		0016	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VISC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANSL (m)	OIL	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
								33	S04	257	-116				07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		$\Sigma \Delta O$ OYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH				
200	OBS	0025	-0178	32711	2634						14382											
	STD	0030	-0180	3271	2634					0016879	14382											
	STD	0050	-0182	3272	2635					0016835	14384											
200	OBS	0050	-0182	32715	2635						14384											
	STD	0075	-0171	3284	2645					0015853	14395											
200	OBS	0075	-0171	32843	2645						14395											
	STD	0100	-0160	3303	2659					0014447	14407											
200	OBS	0100	-0160	33027	2659						14407											
	STD	0125	-0108	3360	2704					0010199	14444											
	STD	0150	-0066	3405	2739					0006923	14474											
200	OBS	0150	-0066	34049	2739						14474											
	STD	0200	-0010	3461	2781					0002947	14516											
200	OBS	0200	-0010	34605	2781						14516											
200	OBS	0235	-0007	34622	2783						14523											

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311506			79160N	072480W	260	92	05	11	222	1969	K82	017	0237					73	8		0017		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VISC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	OIL	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
								33	S07	251	-110				4	07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		$\Sigma \Delta O$ OYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH					
222	OBS	0025	-0178	32716	2635						14382												
	STD	0030	-0180	3272	2635					0016825	14382												
	STD	0050	-0182	3273	2636					0016719	14385												
222	OBS	0050	-0182	32730	2636						14385												
	STD	0075	-0172	3280	2642					0016150	14394												
222	OBS	0075	-0172	32804	2642						14394												
	STD	0100	-0159	3305	2661					0014296	14408												
222	OBS	0100	-0159	33047	2661						14408												
	STD	0125	-0107	3358	2703					0010356	14444												
	STD	0150	-0064	3403	2737					0007106	14475												
222	OBS	0150	-0064	34026	2737						14475												
	STD	0200	-0009	3462	2782					0002846	14517												
222	OBS	0200	-0009	34619	2782						14517												
222	OBS	0235	-0007	34633	2783						14524												

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	W/250EN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311506			79160N	072480W	260	92	05	12	041	1969	K82	018	0237					44	8		0018		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VISC CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	OIL	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB											
								03	S02	234	-166				5	07							
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-210°		$\Sigma \Delta O$ OYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO ₂ -N $\mu g - ml/l$	NO ₃ -N $\mu g - ml/l$	SiO ₄ -Si $\mu g - ml/l$	pH					
041	OBS	0025	-0175	32716	2634						14384												
	STD	0030	-0177	3272	2635					0016846	14383												
	STD	0050	-0181	3272	2635					0016775	14385												
041	OBS	0050	-0181	32723	2635						14385												
	STD	0075	-0173	3282	2643					0016056	14394												
041	OBS	0075	-0173	32816	2643						14394												
	STD	0100	-0163	3299	2656					0014739	14405												
041	OBS	0100	-0163	32988	2656						14405												
	STD	0125	-0109	3362	2706					0010043	14444												
	STD	0150	-0065	3409	2743					0006591	14475												
041	OBS	0150	-0065	34093	2743						14475												
	STD	0200	-0009	3459	2780					0003059	14516												
041	OBS	0200	-0009	34591	2780						14516												
041	OBS	0235	-0007	34614	2782						14523												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	W/RS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10°	1°	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	123	1969	KB2	019	0237							0019
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									00	500	224	-110			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
123		OBS	0025	-0149	32721	2634				14396											
		STD	0030	-0156	3272	2634	0016876			14393											
		STD	0050	-0173	3271	2634	0016876			14389											
123		OBS	0050	-0173	32712	2634				14389											
		STD	0075	-0175	3278	2640	0016343			14393											
123		OBS	0075	-0175	32778	2640				14393											
		STD	0100	-0165	3294	2653	0015087			14404											
123		OBS	0100	-0165	32942	2653				14404											
		STD	0125	-0109	3357	2702	0010425			14443											
		STD	0150	-0065	3406	2740	0006828			14475											
123		OBS	0150	-0065	34062	2740				14475											
		STD	0200	-0012	3461	2782	0002899			14515											
123		OBS	0200	-0012	34610	2782				14515											
123		OBS	0235	-0008	34613	2782				14523											

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	W/RS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10°	1°	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	200	1969	KB2	020	0237					0	0020	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									36	502	210	-120			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
200		OBS	0025	-0176	32058	2581				14374											
		STD	0030	-0177	3224	2596	0020516			14377											
		STD	0050	-0178	3272	2635	0016819			14386											
200		OBS	0050	-0178	32718	2635				14386											
		STD	0075	-0173	3281	2642	0016133			14394											
200		OBS	0075	-0173	32806	2642				14394											
		STD	0100	-0160	3295	2653	0015053			14406											
200		OBS	0100	-0160	32948	2653				14406											
		STD	0125	-0103	3365	2708	0009834			14447											
		STD	0150	-0059	3416	2747	0006144			14479											
200		OBS	0150	-0059	34155	2747				14479											
		STD	0200	-0011	3461	2781	0002942			14516											
200		OBS	0200	-0011	34605	2781				14516											
200		OBS	0235	-0008	34620	2782				14523											

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	W/RS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10°	1°	MO		DAY	HR./10			CRUISE NO.	STATION NUMBER	DR.		HGT	PER	
311506			79160N	072480W		260	92	05	12	225	1969	KB2	021	0237					0	0021	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB										
									36	505	200	-140			07						
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
225		OBS	0025	-0174	32715	2634				14384											
		STD	0030	-0171	3272	2634	0016874			14386											
		STD	0050	-0165	3272	2634	0016862			14392											
225		OBS	0050	-0165	32716	2634				14392											
		STD	0075	-0175	3278	2639	0016359			14393											
225		OBS	0075	-0175	32776	2639				14393											
		STD	0100	-0164	3294	2652	0015120			14404											
225		OBS	0100	-0164	32938	2652				14404											
		STD	0125	-0100	3397	2734	0007399			14453											
		STD	0150	-0053	3459	2782	0002848			14488											
225		OBS	0150	-0053	34591	2782				14488											
		STD	0200	-0010	3459	2780	0003031			14516											
225		OBS	0200	-0010	34594	2780				14516											
225		OBS	0235	-0007	34619	2782				14523											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	M/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	042	1969	K82 022		0237						1	0022
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB									
									20	502	186	-200		8	07						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
042		OBS	0025	-0178	32711	2634					14382										
		STD	0030	-0178	3271	2634	0016882				14383										
		STD	0050	-0179	3272	2635	0016833				14386										
042		OBS	0050	-0179	32716	2635					14386										
		STD	0075	-0173	3282	2643	0015994				14394										
042		OBS	0075	-0173	32824	2643					14394										
		STD	0100	-0161	3293	2651	0015204				14406										
042		OBS	0100	-0161	32928	2651					14406										
		STD	0125	-0103	3363	2707	0009987				14447										
		STD	0150	-0059	3414	2746	0006266				14479										
042		OBS	0150	-0059	34139	2746					14479										
		STD	0200	-0013	3459	2780	0003076				14514										
042		OBS	0200	-0013	34586	2780					14514										
042		OBS	0235	-0007	34603	2781					14523										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	M/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	125	1969	K82 023		0237						1	0023
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB									
									06	510	186	-130		7	07						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
125		OBS	0025	-0177	32716	2635					14383										
		STD	0030	-0178	3272	2635	0016852				14383										
		STD	0050	-0179	3272	2634	0016840				14386										
125		OBS	0050	-0179	32715	2634					14386										
		STD	0075	-0172	3278	2639	0016373				14394										
125		OBS	0075	-0172	32775	2639					14394										
		STD	0100	-0163	3297	2655	0014862				14405										
125		OBS	0100	-0163	32972	2655					14405										
		STD	0125	-0099	3366	2709	0009772				14449										
		STD	0150	-0052	3416	2748	0006115				14482										
125		OBS	0150	-0052	34163	2748					14482										
		STD	0200	-0012	3460	2781	0002998				14515										
125		OBS	0200	-0012	34597	2781					14515										
125		OBS	0235	-0007	34618	2782					14523										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDIC	M/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. HO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
311506			79160N	072480W		260	92	05	13	183	1969	K82 024		0237						8	0024
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB									
									08	515	186	-150		8	07						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH			
183		OBS	0025	-0174	32718	2635					14384										
		STD	0030	-0176	3271	2634	0016902				14384										
		STD	0050	-0179	3271	2634	0016910				14386										
183		OBS	0050	-0179	32706	2634					14386										
		STD	0075	-0171	3280	2641	0016191				14395										
183		OBS	0075	-0171	32799	2641					14395										
		STD	0100	-0161	3294	2652	0015135				14406										
183		OBS	0100	-0161	32937	2652					14406										
		STD	0125	-0099	3357	2702	0010461				14448										
		STD	0150	-0054	3406	2739	0006891				14480										
183		OBS	0150	-0054																	
		STD	0200	-0013	3460	2781	0002992				14515										
183		OBS	0200	-0013	34597	2781					14515										
183		OBS	0235	-0006	34622	2782					14524										

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W	260	92	05	13	199	1969	K82	025		0237						8		0025
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB										
								08	S10	139	-120		7	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C				
	199	OBS	0025	-0175	32721	2635				14384												
		STD	0030	-0176	3271	2634	0016902			14384												
		STD	0050	-0178	3271	2634	0016889			14386												
	199	OBS	0050	-0178	32709	2634				14386												
		STD	0075	-0171	3282	2643	0016022			14395												
	199	OBS	0075	-0171	32821	2643				14395												
		STD	0100	-0157	3299	2656	0014746			14408												
	199	OBS	0100	-0157	32989	2656				14408												
		STD	0125	-0087	3371	2712	0009435			14455												
		STD	0150	-0040	3421	2751	0005804			14488												
	199	OBS	0150	-0040	34211	2751				14488												
		STD	0200	-0012	3458	2780	0003096			14515												
	199	OBS	0200	-0012	34584	2780				14515												
	199	OBS	0235	-0006	34627	2783				14524												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W	260	92	05	14	042	1969	K82	026		0237					73	X 8		0026
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB										
								08	S15	112	-130		3	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C				
	042	OBS	0025	-0178	32707	2634				14382												
		STD	0030	-0178	3271	2634	0016898			14383												
		STD	0050	-0179	3273	2636	0016726			14386												
	042	OBS	0055	-0179	32736	2636				14387												
		STD	0075	-0174	3279	2640	0016269			14393												
	042	OBS	0075	-0174	32788	2640				14393												
		STD	0100	-0157	3297	2655	0014884			14408												
	042	OBS	0100	-0157	32971	2655				14408												
		STD	0125	-0110	3373	2715	0009198			14445												
		STD	0150	-0070	3424	2755	0005418			14475												
	042	OBS	0150	-0070	34244	2755				14475												
		STD	0200	-0013	3458	2779	0003144			14514												
	042	OBS	0200	-0013	34577	2779				14514												
	042	OBS	0235	-0007	34624	2783				14523												

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	W/2 SOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W	260	92	05	14	124	1969	K82	027		0237					73	X 8		0027
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB										
								07	S05	085	-120		4	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - dl/l	TOTAL-P µg - dl/l	NO ₂ -N µg - dl/l	NO ₃ -N µg - dl/l	SiO ₄ -Si µg - dl/l	pH	S C				
	124	OBS	0025	-0176	32741	2637				14383												
		STD	0030	-0177	3275	2637	0016623			14384												
		STD	0050	-0178	3276	2638	0016466			14387												
	124	OBS	0050	-0178	32764	2638				14387												
		STD	0075	-0172	3282	2643	0016043			14395												
	124	OBS	0075	-0172	32818	2643				14395												
		STD	0100	-0157	3299	2656	0014746			14408												
	124	OBS	0100	-0157	32989	2656				14408												
		STD	0125	-0100	3372	2714	0009310			14450												
		STD	0150	-0057	3423	2753	0005581			14481												
	124	OBS	0150	-0057	34230	2753				14481												
		STD	0200	-0014	3458	2780	0003101			14514												
	124	OBS	0200	-0014	34582	2780				14514												
	124	OBS	0235	-0007	34618	2782				14523												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRIFT INDICATOR	W/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	14	159	1969	KB2	028	0237					70	X 8	0028
						WATER		WIND		BARO- METER (mbal)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
										00	500	085	-085	7	07						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
159		OBS	0025	-0136	32718	2634				14402											
		STD	0030	-0143	3272	2634	0016922			14400											
		STD	0050	-0163	3271	2634	0016882			14393											
159		OBS	0050	-0163	32714	2634				14393											
		STD	0075	-0173	3281	2642	0016125			14394											
159		OBS	0075	-0173	32807	2642				14394											
		STD	0100	-0161	3303	2660	0014422			14407											
159		OBS	0100	-0161	33030	2660				14407											
		STD	0125	-0101	3379	2719	0008771			14450											
		STD	0150	-0057	3430	2759	0005048			14482											
159		OBS	0150	-0057	34300	2759				14482											
		STD	0200	-0014	3457	2779	0003177			14514											
159		OBS	0200	-0014	34572	2779				14514											
159		OBS	0235	-0007	34671	2786				14524											

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRIFT INDICATOR	W/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	14	201	1969	KB2	029	0237					0	0029	
						WATER		WIND		BARO- METER (mbal)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
										04	503	088	-092	8	07						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
201		OBS	0025	-0171	32730	2636				14386											
		STD	0030	-0173	3272	2635	0016831			14385											
		STD	0050	-0178	3272	2635	0016827			14386											
201		OBS	0050	-0178	32717	2635				14386											
		STD	0075	-0172	3282	2643	0016050			14395											
201		OBS	0075	-0172	32817	2643				14395											
		STD	0100	-0151	3299	2656	0014747			14411											
201		OBS	0100	-0151	32991	2656				14411											
		STD	0125	-0091	3371	2713	0009420			14454											
		STD	0150	-0048	3422	2752	0005729			14485											
201		OBS	0150	-0048	34216	2752				14485											
		STD	0200	-0013	3457	2779	0003175			14514											
201		OBS	0200	-0013	34573	2779				14514											
201		OBS	0235	-0006	34609	2781				14524											

REFERENCE		SHIP CODE	LATITUDE 1°/10'	LONGITUDE 1°/10'	DRIFT INDICATOR	W/250EN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.						MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	15	041	1969	KB2	030	0237					4	0030	
						WATER		WIND		BARO- METER (mbal)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
										00	500	081	-108	8	07						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
042		OBS	0025	-0170	32721	2635				14386											
		STD	0030	-0172	3272	2635	0016841			14386											
		STD	0050	-0175	3271	2634	0016887			14388											
042		OBS	0050	-0175	32710	2634				14388											
		STD	0075	-0170	3282	2643	0016024			14396											
042		OBS	0075	-0170	32821	2643				14396											
		STD	0100	-0153	3300	2657	0014680			14410											
042		OBS	0100	-0153	32999	2657				14410											
		STD	0125	-0092	3372	2713	0009340			14453											
		STD	0150	-0048	3422	2752	0005668			14485											
042		OBS	0150	-0048	34224	2752				14485											
		STD	0200	-0011	3458	2779	0003155			14515											
042		OBS	0200	-0011	34577	2779				14515											
042		OBS	0235	-0008	34686	2788				14524											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCLIN	1/2 25DN SQUARE		STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
311506			79160N	072480W	260	92	05	15	122	1969		K82	031		0237							4		0031	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET RULR	DRY RULR	WET RULR	DRY RULR	WET RULR	DRY RULR	WET RULR								
									03	505	098	-088		8	07										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C								
122		OBS	0025	-0178	32722	2635			14382																
		STD	0030	-0178	3272	2635	0016798		14383																
		STD	0050	-0178	3273	2635	0016766		14386																
122		OBS	0050	-0178	32725	2635			14386																
		STD	0075	-0173	3281	2642	0016087		14394																
122		OBS	0075	-0173	32812	2642			14394																
		STD	0100	-0155	3304	2660	0014383		14410																
122		OBS	0100	-0155	33037	2660			14410																
		STD	0125	-0097	3371	2713	0009398		14451																
		STD	0150	-0053	3419	2750	0005919		14482																
122		OBS	0150	-0053	34188	2750			14482																
		STD	0200	-0011	3459	2780	0003026		14515																
122		OBS	0200	-0011	34594	2780			14515																
122		OBS	0235	-0007	34623	2783			14523																

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCLIN	1/2 25DN SQUARE		STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
311506			79160N	072480W	260	92	05	15	191	1969		K82	032		0237						72	X 8		0032	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET RULR	DRY RULR	WET RULR	DRY RULR	WET RULR	DRY RULR	WET RULR								
									08	508	098	-090		5	27										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SDUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C								
		STD	0010	-0153	3274	2636	0016768		14392																
191		OBS	0010	-0153	32736	2636			14392																
		STD	0020	-0165	3271	2634	0016933		14387																
191		OBS	0020	-0165	32710	2634			14387																
		STD	0030	-0176	3272	2635	0016848		14384																
191		OBS	0030	-0176	32717	2635			14384																
191		OBS	0040	-0181	32720	2635			14383																
		STD	0050	-0177	3272	2635	0016791		14387																
191		OBS	0050	-0177	32722	2635			14387																
191		OBS	0060	-0176	32710	2634			14389																
191		OBS	0070	-0173	32798	2641			14393																
208		OBS	0071	-0172	32784	2640			14394																
		STD	0075	-0171	3282	2643	0016030		14395																
208		OBS	0080	-0169	32856	2646			14397																
208		OBS	0090	-0165	32930	2652			14402																
		STD	0100	-0163	3300	2657	0014624		14406																
208		OBS	0100	-0163	33003	2657			14406																
208		OBS	0110	-0124	33303	2681			14430																
208		OBS	0120	-0123	33571	2702			14436																
		STD	0125	-0100	3383	2723	0008469		14451																
208		OBS	0130	-0095	33843	2723			14454																
215		OBS	0131	-0096	33817	2721			14454																
215		OBS	0140	-0080	34012	2737			14465																
		STD	0150	-0056	3424	2754	0005540		14481																
215		OBS	0150	-0056	34236	2754			14481																
215		OBS	0160	-0028	34448	2770			14499																
215		OBS	0170	-0029	34488	2773			14501																
215		OBS	0180	-0022	34530	2776			14506																
215		OBS	0190	-0018	34565	2778			14510																
234		OBS	0191	-0018	34543	2777			14510																
		STD	0200	-0011	3457	2779	0003178		14515																
234		OBS	0200	-0011	34574	2779			14515																
234		OBS	0210	-0011	34600	2781			14517																
234		OBS	0220	-0007	34607	2781			14521																
234		OBS	0230	-0005	34625	2783			14524																
234		OBS	0240	-0005	34618	2782			14525																

TABLE I.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	W/250EN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W	260	92	05	15	199			1969	K82	033	0237						72	X	18	0033
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	(mba)	DRY BULB	WET BULB											
								07	502	119	-059			7	07									

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
199	OBS	0025	-0172	32709	2634				14385								
	STD	0030	-0174	32711	2634	0016906			14385								
	STD	0050	-0176	3273	2636	0016701			14387								
199	OBS	0050	-0176	32734	2636				14387								
	STD	0075	-0169	3285	2645	0015796			14397								
199	OBS	0075	-0169	32851	2645				14397								
	STD	0100	-0159	3305	2661	0014296			14408								
199	OBS	0100	-0159	33047	2661				14408								
	STD	0125	-0101	3373	2715	0009230			14449								
	STD	0150	-0058	3422	2752	0005661			14480								
199	OBS	0150	-0058	34219	2752				14480								
	STD	0200	-0014	3458	2780	0003109			14514								
199	OBS	0200	-0014	34581	2780				14514								
199	OBS	0235	-0008	34625	2783				14523								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	W/250EN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W	260	92	05	16	004	1969	K82	034		0237						72	X	17	0034	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	(mba)	DRY BULB	WET BULB											
										166														
															07									

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
004	OBS	0025	-0175	32691	2632				14383								
	STD	0030	-0175	3269	2632	0017073			14384								
	STD	0050	-0176	3268	2631	0017131			14387								
004	OBS	0050	-0176	3170P	2552P												
	STD	0075	-0171	3266	2630	0017228			14393								
004	OBS	0075	-0171	32664	2630				14393								
	STD	0100	-0159	3334	2685	0012049			14412								
004	OBS	0100	-0159	2605P	2095P												
	STD	0125	-0096	3387	2726	0008178			14454								
	STD	0150	-0051	3425	2755	0005425			14484								
004	OBS	0150	-0051	34254	2755				14484								
	STD	0200	-0013	3460	2781	0002947			14515								
004	OBS	0200	-0013	34603	2781				14515								
004	OBS	0235	-0007	34654	2785				14524								

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	W/250EN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W	260	92	05	16	041	1969		K82	035	0237								0		0035
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	(mba)	DRY BULB	WET BULB											
								18	515	186	-052			9	07									

MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C
041	OBS	0025	-0177	32641	2628				14382								
	STD	0030	-0177	3267	2631	0017207			14383								
	STD	0050	-0178	3277	2639	0016435			14387								
041	OBS	0050	-0178	32768	2639				14387								
	STD	0075	-0171	3289	2648	0015515			14396								
041	OBS	0075	-0171	32887	2648				14396								
	STD	0100	-0163	3300	2657	0014662			14406								
041	OBS	0100	-0163	32998	2657				14406								
	STD	0125	-0098	3343	2690	0011535			14446								
	STD	0150	-0051	3419	2750	0005906			14483								
041	OBS	0150	-0051	34191	2750				14483								
	STD	0200	-0013														
041	OBS	0200	-0013	3370P	2709P												
041	OBS	0235	-0008	3406P	2737P												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR.	HGT	
311506			79160N	072480W		260	92 05 16	125	1969	K82 036		0237						0	0036
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB			
								06	S01	227	-110	9	07						
MESSING TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C	
125	OBS	0025	-0178	32685	2632					14382									
	STD	0030	-0178	3270	2633		0016975			14383									
	STD	0050	-0177	3275	2637		0016560			14387									
125	OBS	0050	-0177	32752	2637					14387									
	STD	0075	-0173	3275	2638		0016532			14393									
125	OBS	0075	-0173	32754	2638					14393									
	STD	0100	-0161	3341	2690		0011507			14412									
125	OBS	0100	-0161	3180P	2560P														
	STD	0125	-0100	3390	2728		0007934			14452									
	STD	0150	-0055	3422	2752		0005667			14482									
125	OBS	0150	-0055	34220	2752					14482									
	STD	0200	-0016	3438	2763		0004649			14510									
125	OBS	0200	-0016	34377	2763					14510									
125	OBS	0235	-0007	3401P	2733P														

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR.	HGT	
311506			79160N	072480W		260	92 05 16	180	1969	K82 037		0237					X 5	0037	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB			
								36	S02	224	-040	8	07						
MESSING TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C	
180	OBS	0025	-0176	32735	2636					14383									
	STD	0030	-0177	3274	2636		0016708			14384									
	STD	0050	-0178	3274	2636		0016673			14387									
180	OBS	0050	-0178	32737	2636					14387									
	STD	0075	-0172	3283	2644		0015958			14395									
180	OBS	0075	-0172	32829	2644					14395									
	STD	0100	-0160	3308	2664		0014040			14408									
180	OBS	0100	-0160	33080	2664					14408									
	STD	0125	-0107	3358	2703		0010356			14444									
	STD	0150	-0065	3391	2727		0008025			14473									
180	OBS	0150	-0065	33905	2727					14473									
	STD	0200	-0015	3405	2737		0007111			14506									
180	OBS	0200	-0015	34054	2737					14506									
180	OBS	0235	-0007	34124	2742					14516									

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DRIFT INDICATOR	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER		DIR.	HGT	
311506			79160N	072480W		260	92 05 16	201	1969	K82 038		0237					8	0038	
						WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB					WET BULB			
								29	S04	227	-020	8	07						
MESSING TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C	
201	OBS	0025	-0177	32708	2634					14382									
	STD	0030	-0177	3272	2635		0016801			14384									
	STD	0050	-0176	3278	2640		0016324			14388									
201	OBS	0050	-0176	3233P	2603P														
	STD	0075	-0170	3286	2646		0015740			14396									
201	OBS	0075	-0170	32858	2646					14396									
	STD	0100	-0156	3311	2666		0013790			14411									
201	OBS	0100	-0156	33114	2666					14411									
	STD	0125	-0102	3338	2686		0011903			14444									
	STD	0150	-0060	3365	2707		0009992			14471									
201	OBS	0150	-0060	3308P	2661P														
	STD	0200	-0015	3422	2751		0005848			14508									
201	OBS	0200	-0015	3357P	2698P														
201	OBS	0235	-0006	34643	2784					14524									

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER						
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT							
311506			79160N	072480W	260	92	05	17	039	1969	K82	039	0237								8		0039						
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)		DRY BULB	WET BULB																
										28	504	220	-068					8	07										
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O OTN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH												
039	OBS	0025	-0178	32644	2629					14381																			
	STD	0030	-0178	3266	2630	0017282				14382																			
	STD	0050	-0179	3275	2637	0016594				14386																			
039	OBS	0050	-0179	32747	2637					14386																			
	STD	0075	-0173	3287	2647	0015672				14395																			
039	OBS	0075	-0173	32866	2647					14395																			
	STD	0100	-0164	3305	2661	0014299				14406																			
039	OBS	0100	-0164	33045	2661					14406																			
	STD	0125	-0103	3306	2660	0014347				14439																			
	STD	0150	-0057	3332	2680	0012538				14468																			
039	OBS	0150	-0057	33318	2680					14468																			
	STD	0200	-0013	3455	2777	0003334				14514																			
039	OBS	0200	-0013	34552	2777					14514																			
039	OBS	0235	-0008																										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
311506			79160N	072480W	260	92	05	17	122	1969		K82	040	0237								7		0040
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB												
									02	504	230	-050					07							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	$\Sigma \Delta O$ OTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION CODE							
122	OBS	0025	-0176	32345	2604				14378															
	STD	0030	-0176	3241	2610	0019209			14379															
	STD	0050	-0177	3264	2628	0017452			14386															
122	OBS	0050	-0177	32636	2628				14386															
	STD	0075	-0171	3281	2642	0016145			14395															
122	OBS	0075	-0171	32805	2642				14395															
	STD	0100	-0156	3304	2660	0014350			14410															
122	OBS	0100	-0156	33041	2660				14410															
	STD	0125	-0094	3375	2716	0009103			14453															
	STD	0150	-0050	3425	2754	0005499			14484															
122	OBS	0150	-0050	34245	2754				14484															
	STD	0200	-0015	3459	2780	0003058			14513															
122	OBS	0200	-0015	34587	2780				14513															
122	OBS	0235	-0009	34652	2785				14523															

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	1/25 DEGREE SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
311506		79160N	072480W	260	92	05	17	198	1969		K82	041	0237							1		0041			
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								03	508	227	-050	8	07												
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	$\Sigma \Delta O$ OTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	STATION CODE								
199	OBS	0025	-0176	32753	2638				14384																
	STD	0030	-0176	3275	2637	0016579			14384																
	STD	0050	-0177	3275	2637	0016599			14387																
199	OBS	0050	-0177	32747	2637				14387																
	STD	0075	-0171	3287	2647	0015653			14396																
199	OBS	0075	-0171	32869	2647				14396																
199	OBS	0099	-0153	33098	2665				14412																
	STD	0100	-0151	3312	2667	0013757			14413																
	STD	0125	-0102	3371	2713	0009379			14448																
199	OBS	0149	-0064	34138	2746				14476																
	STD	0150	-0063	3415	2747	0006165			14477																
199	OBS	0199	-0015	34592	2781				14513																
	STD	0200	-0014	3460	2781	0002964			14514																
199	OBS	0235	-0008	34651	2785				14523																

TABLE I.—Continued

REFERENCE CTRY CODE	SHIP ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY INDIC	WIND		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10°	1°	MO	DAY		HR.1/10	CRUISE NO.		STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	17	208	1969	KB2 042	0237						1		0042
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY RULR	WET RULR									
								03	505	227	-060		8	27							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DTN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
		STD	0010	-0178	3272	2635	0016854			14380											
208		OBS	0010	-0178	32718	2635				14380											
		STD	0020	-0178	3277	2639	0016476			14382											
208		OBS	0020	-0178	32766	2639				14382											
		STD	0030	-0179	3272	2635	0016835			14382											
208		OBS	0030	-0179	32718	2635				14382											
208		OBS	0040	-0179	32715	2634				14384											
		STD	0050	-0176	3271	2634	0016862			14387											
208		OBS	0050	-0176	32713	2634				14387											
208		OBS	0060	-0176	32722	2635				14389											
208		OBS	0070	-0174	32820	2643				14393											
216		OBS	0071	-0169	32874	2647				14396											
		STD	0075	-0165	3291	2650	0015352			14399											
216		OBS	0080	-0162	32953	2653				14402											
216		OBS	0090	-0166	33006	2658				14403											
		STD	0100	-0141	3311	2665	0013900			14418											
216		OBS	0100	-0141	33105	2665				14418											
216		OBS	0110	-0136	33286	2680				14424											
216		OBS	0120	-0109	33504	2697				14441											
		STD	0125	-0106	3365	2708	0009841			14446											
216		OBS	0130	-0102	33792	2720				14450											
224		OBS	0131	-0097	33884	2727				14454											
224		OBS	0140	-0082	34032	2738				14465											
		STD	0150	-0050	3426	2755	0005377			14485											
224		OBS	0150	-0050	34261	2755				14485											
224		OBS	0160	-0028	34414	2767				14498											
224		OBS	0170	-0027	34490	2773				14502											
224		OBS	0180	-0024	34510	2774				14505											
224		OBS	0190	-0024	34501	2774				14506											
243		OBS	0191	-0026	34515	2775				14506											
		STD	0200	-0023	3453	2776	0003419			14509											
243		OBS	0200	-0023	34534	2776				14509											
243		OBS	0210	-0022	34539	2777				14511											
243		OBS	0220	-0016	34558	2778				14516											
243		OBS	0230	-0008	34592	2780				14522											
243		OBS	0240	-0010	34611	2782				14523											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INCHES	% SDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	OR.	HGT	PER		SEA	TYPE		AMT
311506			79160N	072480W		260	92	05	18	011	1969	KB2 043	0237								1		0043
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY RULR	WET BULB										
								02 507		210		-059		8		07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-210°		Σ Δ 0 DTN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C			
011		OBS	0025	-0178	32753	2638						14383											
		STD	0030	-0178	3276	2638		0016552				14383											
		STD	0050	-0179	3276	2638		0016479				14386											
011		OBS	0050	-0179	32762	2638						14386											
		STD	0075	-0172	3292	2651		0015298				14396											
011		OBS	0075	-0172	32915	2651						14396											
		STD	0100	-0160	3310	2665		0013879				14408											
011		OBS	0100	-0160	33101	2665						14408											
		STD	0125	-0108	3379	2720		0008746				14447											
		STD	0150	-0067	3426	2756		0005301				14477											
011		OBS	0150	-0067	34261	2756						14477											
		STD	0200	-0022	3456	2778		0003242				14510											
011		OBS	0200	-0022	34558	2778						14510											
011		OBS	0235	-0010	34636	2784						14522											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311506			79160N	072480W	260	92	05	18	039	1969	K82 044		0237									0		0044
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																
				03	S10	193		-082		8		07												
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
039		OBS	0025	-0181	32733	2636																		
		STD	0030	-0181	3274	2636	0016677																	
		STD	0050	-0181	3276	2638	0016521																	
039		OBS	0050	-0181	32756	2638																		
		STD	0075	-0170	3292	2651	0015248																	
039		OBS	0075	-0170	32922	2651																		
		STD	0100	-0155	3313	2667	0013701																	
039		OBS	0100	-0155	33126	2667																		
		STD	0125	-0111	3375	2717	0009041																	
		STD	0150	-0075	3419	2751	0005793																	
039		OBS	0150	-0075	34192	2751																		
		STD	0200	-0025	3453	2776	0003409																	
039		OBS	0200	-0025	34534	2776																		
039		OBS	0235	-0015	34603	2781																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W	260	92	05	18	121	1969	K82 045		0237								1		0045
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
				02	S17	176		-040		07													
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
121		OBS	0025	-0175	32756	2638																	
		STD	0030	-0175	3276	2638	0016557																
		STD	0050	-0177	3275	2638	0016552																
121		OBS	0050	-0177	32753	2638																	
		STD	0075	-0165	3296	2654	0014953																
121		OBS	0075	-0165	32962	2654																	
		STD	0100	-0149	3317	2671	0013356																
121		OBS	0100	-0149	33173	2671																	
		STD	0125	-0116	3377	2718	0008871																
		STD	0150	-0085	3420	2752	0005729																
121		OBS	0150	-0085	34195	2752																	
		STD	0200	-0031	3455	2778	0003249																
121		OBS	0200	-0031	34551	2778																	
121		OBS	0235	-0015	34563	2778																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311506			79160N	072480W	260	92	05	18	178	1969	K82 046		0237								1		0046
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
				02	S20	166		-065		7		07											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC					
178		OBS	0025	-0180	32750	2637																	
		STD	0030	-0180	3275	2637	0016580																
		STD	0050	-0178	3276	2638	0016527																
178		OBS	0050	-0178	32756	2638																	
		STD	0075	-0168	3296	2654	0015000																
178		OBS	0075	-0168	32955	2654																	
		STD	0100	-0148	3317	2671	0013351																
178		OBS	0100	-0148	33174	2671																	
		STD	0125	-0111	3375	2717	0009041																
		STD	0150	-0080	3416	2749	0006002																
178		OBS	0150	-0080	34162	2749																	
		STD	0200	-0036	3447	2772	0003833																
178		OBS	0200	-0036	34471	2772																	
178		OBS	0235	-0020	34552	2778																	

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1° 10'	LONGITUDE 1° 10'	CHART INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			SEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DR	HGT	PER		SEA	TYPE	
311506			79160N	072480W		260	92	05	19	125	1969	K82	049		0237						8		0049
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB												
									34	S10	091	-070	6					07					
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY-Σ17		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₃ -N μg - ml/l	NO ₂ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH					
124		OBS	0025	-0181	32769	2639					14381												
		STD	0030	-0180	3277	2639	0016433				14383												
		STD	0050	-0177	3282	2643	0016030				14388												
124		OBS	0050	-0177	32821	2643					14388												
		STD	0075	-0170	3293	2652	0015172				14397												
124		OBS	0075	-0170	32932	2652					14397												
		STD	0100	-0158	3304	2661	0014329				14409												
124		OBS	0100	-0158	33043	2661					14409												
		STD	0125	-0120	3362	2706	0010005				14439												
		STD	0150	-0085	3406	2741	0006760				14465												
124		OBS	0150	-0085	34060	2741					14465												
		STD	0200	-0027	3452	2775	0003528				14507												
124		OBS	0200	-0027	34517	2775					14507												
124		OBS	0235	-0016	34589	2780					14519												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			
311506			79160N	072480W		260	92	05	19	160	1969		K82	050		0237						2	0050
						WATER		WIND				BARO-METER (mba)		AIR TEMP. °C									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB		WET BULB	VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
									02	S15	085	-080			6	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOCC STATION NUMBER					
160	OBS	0025	-0179	32779	2640					14382													
	STD	0030	-0178	3278	2640	0016360				14384													
	STD	0050	-0175	3282	2643	0016065				14389													
160	OBS	0050	-0175	32817	2643					14389													
	STD	0075	-0170	3293	2651	0015225				14397													
160	OBS	0075	-0170	32925	2651					14397													
	STD	0100	-0157	3307	2663	0014133				14409													
160	OBS	0100	-0157	33069	2663					14409													
	STD	0125	-0122	3361	2706	0010075				14438													
	STD	0150	-0089	3402	2738	0007026				14463													
160	OBS	0150	-0089	34023	2738					14463													
	STD	0200	-0028	3450	2774	0003653				14506													
160	OBS	0200	-0028	34500	2774					14506													
160	OBS	0235	-0017	34589	2780					14518													

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
CTRY CODE	IO. NO.				10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA				
311506			79160N	072480W		260	92	05	19	205	1969		K82	051		0237						0051	
						WATER		WIND				BARO-METER (mba)		AIR TEMP. °C									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB		WET BULB	VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
									36	S30	078	-090			6	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOCC STATION NUMBER					
205	OBS	0025	-0179	32746	2637					14382													
	STD	0030	-0178	3275	2637	0016620				14383													
	STD	0050	-0176	3275	2637	0016601				14388													
205	OBS	0050	-0176	32747	2637					14388													
	STD	0075	-0168	3290	2649	0015430				14398													
205	OBS	0075	-0168	32899	2649					14398													
205	OBS	0099	-0154	33048	2661					14410													
	STD	0100	-0152	3307	2663	0014138				14412													
	STD	0125	-0115	3353	2699	0010710				14440													
205	OBS	0149	-0085	33892	2727					14463													
	STD	0150	-0084	3391	2728	0007909				14464													
205	OBS	0199	-0045	34405	2767					14497													
	STD	0200	-0044	3441	2767	0004258				14498													
205	OBS	0234	-0016	34558	2778					14518													

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSDEN SQUARE			STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES	NOCC STATION NUMBER		
CTRY CODE	IO. NO.				10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA				
311506			79160N	072480W		260	92	05	20	043	1969		K82	052		0237						0052	
						WATER		WIND				BARO-METER (mba)		AIR TEMP. °C									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB		WET BULB	VEL CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
									03	S30	105	-112			7	07							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210*		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	NOCC STATION NUMBER					
043	OBS	0025	-0181	32776	2639					14382													
	STD	0030	-0181	3276	2638	0016508				14382													
	STD	0050	-0179	3273	2636	0016710				14386													
043	OBS	0050	-0179	32732	2636					14386													
	STD	0075	-0172	3283	2644	0015920				14395													
043	OBS	0075	-0172	32834	2644					14395													
	STD	0100	-0152	3309	2664	0014008				14412													
043	OBS	0100	-0152	33087	2664					14412													
	STD	0125	-0111	3369	2712	0009500				14444													
	STD	0150	-0079	3412	2745	0006357				14469													
043	OBS	0150	-0079	34116	2745					14469													
	STD	0200	-0040	3444	2769	0004049				14500													
043	OBS	0200	-0040	34440	2769					14500													
043	OBS	0235	-0025	34525	2776					14514													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIRCT INDIC	MARSSEN SQUARE		STATION TIME IGMT1			YEAR	ORIGINATOR'S		DEPTH RDITOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WLA- THER CODE	CLOUD CODES		NDBC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
311506			79160N	072480W		260	92	05	20	145	1969	K82	054	0237							2		0054	
						WATER		WIND		AIR TEMP. °C														
						COLOR CODE	TRANS. (m)	OIL	SPEED OR FORCE	BARO- METER	DIST BULR	WET BULR	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
								02	S15	122	-110		6	07										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ	S Δ D DYN. M, x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	Si O ₄ -Si μg - ml/l	pH	S °C							
145		OBS	0025	-0169	32733	2636			14387															
		STD	0030	-0171	3273	2636	0016728		14386															
		STD	0050	-0175	3274	2636	0016687		14388															
145		OBS	0050	-0175	32736	2636			14388															
		STD	0075	-0169	3282	2643	0016003		14396															
145		OBS	0075	-0169	32824	2643			14396															
		STD	0100	-0148	3335	2685	0012002		14418															
145		OBS	0100	-0148																				
		STD	0125	-0109	3377	2718	0008896		14446															
		STD	0150	-0077	3409	2743	0006556		14470															
145		OBS	0150	-0077	34091	2743			14470															
		STD	0200	-0034	3444	2769	0004109		14503															
145		OBS	0200	-0034	34436	2769			14503															
145		OBS	0235	-0015	34558	2778			14519															

TABLE II. Observed and interpolated oceanographic data from stations taken by USCGC SOUTHWIND, 14-28 August 1969, prepared from NODC Listing No. 31-1529.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DURT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR./1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
311529	1S	76142N	062593W	259	62	08	14	161	1969	WGS	001	0413	00	0	X		X1	4	6	0001	
						WATER		WIND		AIR TEMP. °C		BARO- METER		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB
									05	507	178	061	059	7	14						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S				
		STD	0000	0023	1242	0997	0174835	0000	14197	883											
		OBS	0000	0023	12422	0997			14197	883											
161		OBS	0005	0006	31292	2514			14445	1552Q											
		STD	0010	-0105	3240	2607	0019472	0097	14410	1014											
161		OBS	0010	-0105	32400	2607			14410	1014											
		STD	0020	-0129	3287	2646	0015791	0115	14407	790											
161		OBS	0021	-0130	32900	2648			14407	774											
		STD	0030	-0123	3299	2655	0014880	0130	14413	687											
161		OBS	0031	-0122	33003	2656			14414	680											
		STD	0050	-0075	3321	2672	0013338	0158	14442	634											
161		OBS	0051	-0072	33224	2673			14443	632											
		STD	0075	-0009	3341	2685	0012074	0190	14479	579											
163		OBS	0077	-0006	33425	2686			14481	577											
		STD	0100	-0006	3357	2698	0010862	0219	14487	582											
163		OBS	0102	-0006	33577	2698			14487	582											
		STD	0125	0014	3368	2706	0010118	0245	14502	566											
163		OBS	T0126	0015	33686	2706			14502	565											
		STD	0150	0040	3377	2711	0009571	0270	14519	581											
163		OBS	0152	0042	33775	2712			14520	582											
		STD	0200	0066	3388	2719	0008863	0316	14541	559											
163		OBS	T0200	0066	33883	2719			14541	559											
		STD	0250	0086	3399	2726	0008196	0358	14559	540											
163		OBS	T0251	0087	33990	2726			14560	540											
		STD	0300	0165	3425	2742	0006788	0396	14606	524											
163		OBS	0302	0167	34263	2743			14608	523											
		STD	0400	0161																	
163		OBS	T0401	0160																	

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DURT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.	10'	1'	MO	DAY	HR./1/10	CRUISE NO.	STATION NUMBER	DIR.	HGT	PER			SEA	TYPE	AMT				
311529	1S	76050N	063100W	259	63	08	14	224	1969	WGS	002	0465	00	0	X		X3	6	8	0002
					WATER		WIND		AIR TEMP. °C		BARO- METER		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS			
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB
								00	500	156	033	017	7	14						
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S			
		STD	0000	0213	2042	1636	0112642	0000	14392	848										
		OBS	0000	0213	20421	1636			14392	848										
224		OBS	0005	0040	31488	2528			14463	1195										
		STD	0010	-0040	3251	2613	0018883	0066	14441	936										
224		OBS	0010	-0040	32505	2613			14441	936										
		STD	0020	-0093	3289	2646	0015759	0083	14424	810										
224		OBS	0020	-0093	32888	2646			14424	810										
		STD	0030	-0096	3300	2655	0014886	0098	14426	754										
		STD	0050	-0101	3320	2672	0013326	0127	14430	674										
224		OBS	0051	-0101	33214	2673			14430	671										
		STD	0075	-0057	3341	2687	0011866	0158	14457	634										
224		OBS	0076	-0055	33413	2687			14458	633										
		STD	0100	-0019	3358	2699	0010724	0186	14481	599										
224		OBS	0101	-0018	33581	2699			14482	598										
		STD	0125	0014	3368	2706	0010118	0212	14502	581										
		STD	0150	0038	3377	2712	0009560	0237	14518	567										
224		OBS	T0152	0040	33775	2712			14519	566										
		STD	0200	0059	3391	2722	0008616	0282	14538	549										
224		OBS	T0203	0061	33923	2723			14539	548										
		STD	0250	0098	3404	2730	0007882	0324	14565	541										
224		OBS	T0253	0100	34045	2730			14567	541										
		STD	0300	0136	3416	2737	0007257	0362	14592	538										
224		OBS	T0300	0136	34159	2737			14592	538										
224		OBS	0353	0174	34263	2742			14619	528										
		STD	0400	0167	3436	2751	0006008	0428	14625	510										
224		OBS	0447	0156	34411	2756			14629	498										
224		OBS	0457	0153	34414	2756			14629	496										

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER
CTRY CODE	IO. NO.					10"	1'	MO	OAT		HR, 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311529	1S	75536N	060195W	259	50	08 15 183	1969	WGS 003		0393		00	0	X		X6	5 8		0003		
						WATER	WIND	BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	IMBRS	DRY BULB					WET BULB					
								00	S00	143	044	039	14								
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SCC				
		STD	0000	0512	1665	1321	0143181	0000	14475	801											
183	OBS	0000	0512	16653	1321				14475	801											
	STD	0010	0139	3249	2602	0019928	0082	14523	1092												
183	OBS	0010	0139	32485	2602				14523	1092											
	STD	0020	-0063	3291	2647	0015677	0099	14438	959												
183	OBS	0020	-0063	32912	2647				14438	959											
	STD	0030	-0123	3304	2659	0014519	0114	14413	699												
183	OBS	0030	-0123	33037	2659				14413	699											
	STD	0050	-0091	3325	2675	0012975	0142	14435	628												
183	OBS	0051	-0089	33257	2676				14436	625											
	STD	0075	-0039	3346	2690	0011558	0173	14466	591												
183	OBS	0076	-0038	33468	2691				14467	589											
	STD	0100	-0019	3356	2698	0010876	0201	14481	513												
183	OBS	0101	-0018	33564	2698				14481	512											
	STD	0125	0011	3365	2703	0010331	0227	14500	551												
183	OBS	0126	0012	33659	2704				14501	552											
	STD	0150	0027	3377	2712	0009499	0252	14513	537												
183	OBS	T0152	0028	33782	2713				14514	536											
	STD	0200	0061	3395	2724	0008355	0297	14539	523												
183	OBS	T0201	0062	33949	2725				14540	523											
	STD	0250	0088	3405	2731	0007740	0337	14561	512												
183	OBS	T0251	0089	34051	2731				14562	512											
	STD	0300	0144	3419	2739	0007082	0374	14596	521												
183	OBS	T0301	0145	34195	2739				14597	521											
183	OBS	T0366	0178	34329	2747				14624	509											
183	OBS	T0376	0182	34373	2751				14628	508											

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER
CTRY CODE	IG. NO.					10'	1"	MO	DAY	HR		1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA	
311529	1S	75500N	060375W	259	50	08 15 213	1969	WGS 004			0703		00	0	X		X2	5 8			0004	
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
									00	S00	150	034	028	7	13							
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	SCC					
		STD	0000	0384	2154	1716	0104910	0000	14483	796												
213	OBS	0000	0384	21539	1716				14483	796												
	STD	0010	0081	3216	2580	0022047	0063	14492	1276													
213	OBS	0010	0081	32163	2580				14492	1276												
	STD	0020	-0062	3290	2646	0015811	0082	14438	964													
213	OBS	0020	-0062	32895	2646				14438	964												
	STD	0030	-0064	3303	2657	0014742	0098	14441	846													
213	OBS	0030	-0064	33033	2657				14441													
	STD	0050	-0073	3328	2677	0012840	0125	14444	675													
213	OBS	0050	-0073	33276	2677				14444	675												
	STD	0075	-0052	3338	2684	0012146	0156	14459	650													
	STD	0100	-0035	3348	2691	0011445	0186	14472	627													
213	OBS	0101	-0034	33480	2692				14473	626												
	STD	0125	-0024	3352	2695	0011129	0214	14482	608													
	STD	0150	-0013	3357	2698	0010829	0242	14492	591													
213	OBS	0151	-0013	33570	2698				14492													
	STD	0200	0092	3396	2724	0008443	0290	14553	560													
213	OBS	T0203	0097	33975	2725				14556	558												
	STD	0250	0143	3414	2735	0007440	0330	14587	532													
213	OBS	T0298	0174	34269	2743				14610	513												
	STD	0300	0174	3427	2743	0006709	0365	14611	513													
	STD	0400	0182	3439	2752	0005903	0428	14632	496													
213	OBS	0401	0182	34392	2752				14633	496												
	STD	0500	0176	3444	2756	0005517	0485	14647	492													
213	OBS	T0503	0176	34443	2757				14648	492												
	STD	0600	0175	3445	2757	0005476	0540	14663	502													
213	OBS	T0602	0175	34449	2757				14664	502												
213	OBS	T0682	0177	34458	2758				14678	500												

TABLE II.—Continued

REFERENCE CRST CODE	SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	NODC STATION NUMBER		
					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER				SEA	
311529	1S	75410N	059080W	258	59	08	18	155	1969	WGS	005	0371		00	0	X		X2	4	8		0005
					WATER		WIND				AIR TEMP. °C											
					COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	BARO- METER (mbars)			DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
								24	503	200	029	025	8	14								

MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C
		STD	0000	0319	2418	1929	0084303	0000	14489	794							
		OBS	0000	0319	24182	1929			14489	794							
155		OBS	0005	0170	30832	2468			14513	1125							
		STD	0010	0046	3212	2579	0022190	0053	14476	1100							
155		OBS	0010	0046	32121	2579			14476	1100							
		STD	0020	0006	3280	2635	0016784	0073	14468	1065							
155		OBS	0020	0006	32804	2635			14468	1065							
		STD	0030	-0059	3301	2655	0014952	0089	14443	887							
155		OBS	0030	-0059	33008	2655			14443	887							
155		OBS	0049	-0050	33258	2675			14454	648							
		STD	0050	-0050	3327	2675	0012976	0117	14454	649							
155		OBS	0074	-0039	33420	2687			14465	651							
		STD	0075	-0038	3343	2688	0011792	0147	14466	650							
155		OBS	0098	-0016	33544	2696			14482	620							
		STD	0100	-0013	3355	2696	0010981	0176	14483	617							
		STD	0125	0021	3360	2699	0010764	0203	14504	589							
155		OBS	0147	0048	33677	2704			14521	572							
		STD	0150	0052	3370	2705	0010171	0229	14523	571							
155		OBS	0196	0096	33937	2722			14554	560							
		STD	0200	0097	3394	2722	0008627	0276	14555	559							
155		OBS	T0243	0114	34038	2729			14571	544							
		STD	0250	0121	3407	2731	0007812	0317	14576	540							
155		OBS	T0294	0148	34209	2740			14597	518							
		STD	0300	0148	3422	2741	0006885	0354	14599	516							
165		OBS	T0343	0148	34288	2746			14607	498							
165		OBS	0354	0148	34312	2748			14609	492							

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311529	1S	75390N	059140W	258	59	08	18	182	1969	WGS	006	0172	00	0	X		X2	4	8			0006	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB												
								24	503	200	029	025	8	11									

MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma_t$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C
		STD	0000	0254	2531	2023	0075278	0000	14475	755							
182		OBS	0000	0254	25313	2023			14475	755							
182		OBS	0005	0202	30881	2470			14528	1023							
		STD	0010	0092	3206	2571	0022891	0049	14496	1110							
182		OBS	0011	0074	32237	2586			14490	1111							
		STD	0020	-0025	3272	2630	0017293	0069	14453	807							
182		OBS	0022	-0038	32802	2637			14449	766							
		STD	0030	-0049	3298	2652	0015204	0085	14447	730							
182		OBS	0033	-0052	33031	2656			14447	715							
		STD	0050	-0055	3325	2674	0013106	0114	14451	613							
182		OBS	0054	-0056	33287	2677			14452	598							
		STD	0075	-0037	3341	2686	0011949	0145	14466	580							
182		OBS	0081	-0031	33450	2689			14471	578							
		STD	0100	-0014	3356	2697	0010900	0174	14483	580							
182		OBS	T0108	-0006	33601	2700			14489	581							
		STD	0125	0003	3362	2701	0010519	0200	14496	578							
		STD	0150	0035	3373	2709	0009847	0226	14516	570							
182		OBS	0158	0051	33780	2712			14525	566							
182		OBS	T0168	0074	33860	2717			14539	561							
182		OBS	T0172		33885					584							

TABLE II.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCH	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
							10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311529	IS		75360N	059450W		258	59	08	18	230	1969	WGS	007		0630		00	0	X		X1	5	3	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
									00	S00	209	088	066	8	15									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C					
		STD	0000	0566	2885	2277	0050958		0000		14656	728												
	230	OBS	0000	0566	28852	2277					14656	728												
	230	OBS	0005	0681	30541	2396					14725	730												
		STD	0010	0405	3187	2532	0026658		0039		14630	928												
	230	OBS	0010	0405	31868	2532					14630	928												
		STD	0020	0151	3278	2625	0017800		0061		14534	1012												
	230	OBS	0020	0151	32775	2625					14534	1012												
		STD	0030	0009	3311	2660	0014443		0077		14476	928												
	230	OBS	0030	0009	33112	2660					14476	928												
		STD	0050	-0064	3336	2683	0012269		0104		14449	679												
	230	OBS	0050	-0064	33355	2683					14449	679												
	230	OBS	0074	-0026	33509	2694					14473	620												
		STD	0075	-0023	3351	2694	0011247		0133		14474	620												
	234	OBS	0099	0043	33641	2701					14510	607												
		STD	0100	0044	3365	2702	0010510		0160		14511	606												
		STD	0125	0064	3377	2710	0009710		0186		14526	578												
	234	OBS	0149	0085	33872	2717					14541	560												
		STD	0150	0086	3388	2718	0009008		0209		14541	560												
	234	OBS	0198	0131	34039	2727					14572	553												
		STD	0200	0132	3404	2727	0008106		0252		14572	553												
		STD	0250	0149	3413	2734	0007559		0291		14589	540												
	234	OBS	0298	0161	34212	2739					14604	527												
		STD	0300	0161	3422	2740	0006985		0327		14604	526												
	238	OBS	T0399	0169	34357	2750					14626	496												
		STD	0400	0169	3436	2750	0006025		0392		14626	496												
	238	OBS	T0493	0178	34418	2754					14647	486												
		STD	0500	0178	3442	2755	0005682		0451		14648	488												
	238	OBS	T0537	0178	34424	2755					14654	496												
	238	OBS	0548		34422						504													

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCH	MARSDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
							10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
311529	IS		75108N	059105W		258	59	08	19	160	1969	WGS	009		0795		00	0	X		X0		0	0008
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
									04	S11	200	050	033	8	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₂ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C					
		STD	0000	0609	3075	2421	0037169		0000		14698	755												
	160	OBS	0000	0609	30749	2421					14698	755												
		STD	0010	0252	3187	2545	0025395		0031		14564	924												
	160	OBS	0010	0252	31866	2545					14564	924												
		STD	0020	0054	3295	2645	0015889		0052		14492	975												
	160	OBS	0020	0054	32952	2645					14492	975												
		STD	0030	-0004	3315	2663	0014132		0067		14470	866												
	160	OBS	0030	-0004	33145	2663					14470	866												
		STD	0050	-0061	3333	2681	0012487		0094		14450	697												
	160	OBS	0050	-0061	33328	2681					14450	697												
		STD	0075	-0058	3349	2693	0011258		0123		14458	662												
	160	OBS	0075	-0058	33489	2693					14458	662												
		STD	0100	0010	3366	2704	0010293		0150		14495	610												
	160	OBS	T0100	0010	33655	2704					14495	610												
		STD	0125	0041	3374	2709	0009822		0175		14515	604												
		STD	0150	0069	3382	2714	0009352		0199		14533	598												
		STD	0200	0114	3399	2724	0008384		0244		14564	585												
	160	OBS	0201	0115	33990	2725					14564	585												
		STD	0250	0143	3411	2732	0007666		0284		14587	562												
		STD	0300	0163	3421	2739	0007074		0321		14605	543												
	160	OBS	T0302	0164	34214	2739					14606	542												
		STD	0400	0178	3438	2751	0005943		0386		14630	516												
	160	OBS	T0403	0178	34386	2752					14631	515												
	167	OBS	T0499	0167	34447	2758					14643	510												
		STD	0500	0167	3445	2758	0005365		0442		14643	510												
	167	OBS	T0593	0166	34477	2760					14659	500												
		STD	0600	0166	3448	2760	0005178		0495		14660	500												
		STD	0700	0160	3449	2761	0005089		0546		14674	500												
	167	OBS	T0701	0160	34488	2761					14674	500												
	167	OBS	T0777	0048	34493	2769					14637	504												

TABLE II.—Continued

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSOEN	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD	NODC		
								CRUISE	STATION			TO	OF	OBSERVATIONS	THER				CODES	STATION
CTRY	ID.	1/10	1/10	10"	1"	MO	DAY	HR	1/10	NO.	NUMBER	BOTTOM	S'AMPL'S	DIR	HGT	PER	SEA	TYPE	AMT	NUMBER
311529	1S	75110N	058530W	258	58	08	19	181	1969	WGS	008	0274		00	0	X		X0	0	0009
				WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL						
				COLOR	TRANS.	DIR.	SPEED	METER	OR	DRY	WET					CODE	OBS.	OBSERVATIONS		
				CODE	(m)		OR	(mba)	FORCE	BULB	BULB	CODE	OBS.	OBSERVATIONS						
							35	S07	186	050	037	8	11							
MESSAGE	CARD	CARD	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME	Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	STATION			
TIME	NO.	TYPE					ANOMALY-Σ10 ³	dyn. M.	VELOCITY		μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l		NUMBER			
HR 1/10								X 10 ³												
		STD	0000	0563	3056	2412	0038095	0000	14677	773										
181		OBS	0000	0563	30558	2412			14677	773										
181		OBS	0005	0550	30495	2408			14672	784										
		STD	0010	0246	3212	2565	0023448	0031	14565	1029										
181		OBS	0010	0246	32117	2565			14565	1029										
		STD	0020	0087	3288	2637	0016631	0051	14506	1022										
181		OBS	0020	0087	32878	2637			14506	1022										
		STD	0030	-0014	3309	2659	0014507	0066	14465	892										
181		OBS	0030	-0014	33090	2659			14465	892										
		STD	0050	-0054	3328	2677	0012851	0094	14452	691										
181		OBS	0050	-0054	33284	2677			14452	691										
		STD	0075	-0043	3346	2691	0011541	0124	14464	637										
181		OBS	0076	-0042	33464	2691			14465	636										
		STD	0100	0016	3358	2698	0010879	0152	14497	622										
181		OBS	T0100	0016	33582	2698			14497	622										
		STD	0125	0041	3371	2707	0010035	0178	14514	606										
		STD	0150	0064	3383	2715	0009254	0203	14531	589										
181		OBS	T0152	0066	33834	2715			14532	588										
		STD	0200	0102	3400	2726	0008205	0246	14558	557										
181		OBS	0201	0103	34007	2727			14559	556										
181		OBS	T0210	0109	34025	2728			14564	554										

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSOEN	STATION TIME	YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD	NODC		
								CRUISE	STATION			TO	OF	OBSERVATIONS	THER				CODES	STATION
CTRY	ID.	1/10	1/10	10"	1"	MO	DAY	HR	1/10	NO.	NUMBER	BOTTOM	S'AMPL'S	DIR	HGT	PER	SEA	TYPE	AMT	NUMBER
311529	1S	74504N	057211W	258	47	08	20	146	1969	WGS	010	0366		00	0	X		X1	5	0010
				WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL						
				COLOR	TRANS.	DIR.	SPEED	METER	OR	DRY	WET					CODE	OBS.	OBSERVATIONS		
				CODE	(m)		OR	(mba)	FORCE	BULB	BULB	CODE	OBS.	OBSERVATIONS						
							21	S07	185	050	042	8	12							
MESSAGE	CARD	CARD	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME	Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	STATION			
TIME	NO.	TYPE					ANOMALY-Σ10 ³	dyn. M.	VELOCITY		μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l	μg - ml/l		NUMBER			
HR 1/10								X 10 ³												
		STD	0000	0374	2679	2132	0064805	0000	14548	798										
146		OBS	0000	0374	26792	2132			14548	798										
		STD	0010	0178	3244	2596	0020520	0043	14539	1074										
146		OBS	0010	0178	32440	2596			14539	1074										
		STD	0020	-0034	3285	2641	0016239	0061	14451	811										
146		OBS	0020	-0034	32853	2641			14451	811										
		STD	0030	-0053	3307	2660	0014493	0076	14447	628										
146		OBS	0030	-0053	33071	2660			14447	628										
146		OBS	0049	-0068	33271	2676			14446	561										
		STD	0050	-0067	3328	2677	0012832	0104	14446	561										
146		OBS	0074	-0043	33447	2689			14464	566										
		STD	0075	-0043	3345	2690	0011620	0134	14464	566										
146		OBS	0098	-0031	33564	2698			14475	560										
		STD	0100	-0030	3357	2699	0010750	0162	14476	559										
		STD	0125	-0013	3366	2705	0010136	0188	14489	547										
146		OBS	T0149	0003	33746	2711			14502	539										
		STD	0150	0004	3375	2712	0009530	0213	14502	539										
146		OBS	T0196	0033	33900	2722			14525	531										
		STD	0200	0035	3391	2723	0008475	0258	14527	530										
		STD	0250	0061	3400	2729	0007946	0299	14548	517										
146		OBS	T0290	0078	34099	2736			14564	515										
		STD	0300		3413					516										
146		OBS	0317		34184					517										
146		OBS	0327		34216					511										

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTDM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
311529	1S		7448 N	05748 W	258	47	08	20	220	1969	WGS 011		0934		00	0	X		X1	5 2	0011	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.	DIR.									
						00	S00	226	056	044	8	16										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta$ D DYN. M. x 10 ²	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SID ₄ -Si µg - ml/l	pH	S C C					
		STD	0000	0343	2701	2152	0062911	0000	14537	797												
220		OBS	0000	0343	27011	2152			14537	797												
		STD	0010	0072	3223	2586	0021520	0042	14489	1084												
220		OBS	0010	0072	32226	2586			14489	1084												
		STD	0020	0014	3286	2640	0016393	0061	14473	1088												
220		OBS	0021	0007	32903	2643			14470	1088												
		STD	0030	-0067	3309	2662	0014295	0077	14440	771												
220		OBS	0031	-0073	33109	2663			14438	746												
		STD	0050	-0070	3326	2675	0012973	0104	14445	656												
220		OBS	0051	-0069	33268	2676			14445	653												
		STD	0075	-0039	3344	2689	0011711	0135	14466	630												
220		OBS	0077	-0036	33455	2690			14468	629												
		STD	0100	-0005	3359	2699	0010714	0163	14488	618												
220		OBS	0102	-0003	33597	2700			14489	617												
		STD	0125	0021	3368	2705	0010155	0189	14505	595												
		STD	0150	0044	3376	2710	0009669	0214	14521	573												
220		OBS	0153	0047	33772	2711			14523	571												
		STD	0200	0081	3393	2722	0008600	0259	14548	541												
220		OBS	T0204	0083	33940	2723			14550													
		STD	0250	0080	3402	2729	0007916	0301	14557	517												
		STD	0300	0077	3412	2737	0007143	0338	14565	501												
220		OBS	T0304	0077	34124	2738			14566	500												
		STD	0400	0123	3430	2749	0006120	0404	14605	493												
220		OBS	T0406	0125	34313	2750			14607	492												
		STD	0500	0133	3445	2760	0005093	0461	14628	470												
220		OBS	T0508	0134	34454	2761			14630	469												
		STD	0600	0128	3448	2763	0004852	0510	14643	469												
226		OBS	0602	0128	34481	2763			14643	469												
		STD	0700	0127	3449	2764	0004793	0558	14659	468												
226		OBS	T0703	0127	34493	2764			14660	468												
		STD	0800	0128	3450	2764	0004774	0606	14677	469												
		STD	0900	0130	3450	2764	0004794	0654	14694	471												
226		OBS	T0923	0131	34501	2764			14699	471												
226		OBS	0934		34498					451												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARSSEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
							10'	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA	
CTRY CODE	ID. NO.																						
	311529	1S	73355N	055570W		258	35	08	21	203	1969	WGS	012	0816		00	0	X		X1	1	6	0012
				WATER		WIND		AIR TEMP. °C				SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS									
					00	142		039		028		7		13									

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLE	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. HO.					10"	1"	MO	OAY	HR.1/10	CRUISE HO.		STATION NUMBER	DR.			HGT	PER	SEA	TYPE		AMT		
311529	15	72554N	055272W	258	25	08	23	147	1969	WGS	014	0980	03	1	X		X4	X	9			0014		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		HO. ORS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANL. (m)	DUR.	SPEED OR FORCE	(mba)		DRY RULE	WET RULE											
								01	S11	004		017	017	2	15									
MESSAGE TIME HR 1/10	CARD HO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta O$ OTH. M. R 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - µl/l	TOTAL-P µg - µl/l	NO ₂ -N µg - µl/l	NO ₃ -N µg - µl/l	SiO ₄ -Si µg - µl/l	pH	SIC							
		STD	0000	0219	3004	2402	0039007	0000	14523	912														
147		OBS	0000	0219	30043	2402			14523	912														
		STD	0010	0136	3278	2626	0017674	0028	14525	869														
147		OBS	0010	0136	32779	2626			14525	869														
		STD	0020	0143	3300	2643	0016039	0045	14533	817														
147		OBS	0020	0143	33000	2643			14533	817														
		STD	0030	0078	3319	2662	0014235	0060	14508	686														
147		OBS	0030	0078	33186	2662			14508	686														
		STD	0050	0079	3334	2675	0013052	0088	14514	695														
147		OBS	0050	0079	33342	2675			14514	695														
		STD	0075	0075	3342	2682	0012412	0119	14518	690														
147		OBS	0075	0075	33423	2682			14518	690														
		STD	0100	0074	3355	2692	0011440	0149	14523	668														
147		OBS	0101	0074	33555	2692			14523	667														
		STD	0125	0079	3369	2703	0010406	0177	14531	634														
		STD	0150	0085	3380	2711	0009609	0202	14540	608														
147		OBS	T0152	0086	33812	2712			14541	606														
		STD	0200	0101	3397	2724	0008426	0247	14558	583														
147		OBS	T0202	0102	33976	2724			14558	582														
		STD	0250	0132	3415	2736	0007285	0286	14582	552														
		STD	0300	0159	3430	2746	0006403	0320	14604	532														
153		OBS	0300		34295					532														
		STD	0400	0204	3448	2758	0005395	0379	14643	524														
153		OBS	0400		34482					524														
		STD	0500	0233	3454	2760	0005263	0432	14674	541														
		STD	0600	0249	3458	2762	0005166	0485	14698	549														
153		OBS	0600	0249	34580	2762			14698	549														
		STD	0700	0241	3458	2762	0005144	0536	14711	543														
		STD	0800	0237	3457	2762	0005203	0588	14726	538														
153		OBS	T0800	0237	34574	2762			14726	538														
		STD	0900	0236	3457	2762	0005245	0640	14742	534														
153		OBS	T0951	0236	34574	2762			14751	532														
153		OBS	0961		34570					504														

TABLE II.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT FOOT	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH ID BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311529	15		72170N	061465W	259	21	08	24	022	1969	WGS	020	1836		00	0	X		X1	8	7		0015
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPED OR FORCE	mmHg	DRY BULB	WET BULB											
								00	500	050	016	011	6	16									
MESSAGE TIME NR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SDUNO VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0397	2868	2280	0050664	0000	14583														
		OBS	0000	0397	28681	2280			14583														
		STD	0010	-0025	3205	2576	0022416	0037	14442														
		OBS	0010	-0025	32051	2576			14442														
		STD	0020	-0118	3304	2659	0014509	0055	14414														
		OBS	0020	-0118	33041	2659			14414														
		STD	0030	-0153	3323	2676	0012965	0069	14402														
		OBS	0030	-0153	33229	2676			14402														
		STD	0050	-0171	3337	2687	0011855	0094	14399														
		OBS	0050	-0171	33366	2687			14399														
		STD	0075	-0176	3342	2691	0011426	0123	14401														
		OBS	0076	-0176	33420	2692			14401														
		STD	0100	-0164	3349	2697	0010908	0151	14412														
		OBS	0101	-0163	33490	2697			14413														
		STD	0125	-0141	3358	2704	0010244	0177	14428														
		STD	0150	-0111	3368	2711	0009564	0202	14448														
		OBS	0151	-0110	33683	2711			14449														
		STD	0200	-0030	3387	2723	0008436	0247	14497														
		OBS	0202	-0027	33878	2724			14498														
		STD	0250	0040	3406	2735	0007364	0286	14540														
		STD	0300	0097	3421	2743	0006595	0321	14576														
		STD	0400	0173	3444	2757	0005454	0381	14629														
		OBS	T0403	0174	34442	2757			14630														
		STD	0500	0171	3449	2761	0005110	0434	14645														
		STD	0600	0167	3454	2765	0004756	0484	14661														
		OBS	T0603	0167	34537	2765			14662														
		STD	0700	0125	3452	2766	0004552	0530	14659														
		STD	0800	0089	3450	2767	0004427	0575	14659														
		OBS	T0805	0087	34499	2767			14659														
		STD	0900	0063	3449	2768	0004307	0619	14664														
		STD	1000	0039	3448	2769	0004188	0661	14670														
		OBS	T1002	0038	34476	2768			14670														
		STD	1100	0026	3448	2769	0004126	0703	14681														
		STD	1200	0009	3447	2770	0004000	0743	14690														
		OBS	T1208	0007	34473	2770			14691														
		STD	1300	-0015	3448	2771	0003782	0782	14696														
		STD	1400	-0044	3448	2773	0003518	0819	14700														
		STD	1500	-0078	3448	2774	0003211	0852	14701														
032		OBS	T1505	-0080	34479	2774			14701														
032		OBS	1635		34474																		

TABLE II.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT						
311529		1S	72450N	057000W		258	27	08	24	135	1969	WGS	015	0218		00	0	X		X2	6	8	0016					
		WATER		WIND		BARO- METER		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS														
		COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		(mba)		DRY BULB		WET BULB		VIS. CODE												
								00		500		014		027		022		7		11								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S °C							
		STD	0000	0528	3270	2584		0021645		0000		14691																
135	OBS	0000	0528	32698	2584		0021273		0021		14692																	
	STD	0010	0524	3274	2588						14692																	
135	OBS	0010	0524	32743	2588						14692																	
	STD	0020	0356	3298	2625		0017815		0041		14626																	
135	OBS	0020	0356	32982	2625						14626																	
	STD	0030	0058	3329	2672		0013363		0057		14501																	
135	OBS	0030	0058	33286	2672						14501																	
	STD	0050	-0046	3342	2688		0011821		0082		14458																	
135	OBS	0050	-0046	33423	2688						14458																	
135	OBS	0074	-0048	33505	2694						14462																	
	STD	0075	-0048	3351	2695		0011163		0111		14463																	
135	OBS	0098	-0041	33554	2698						14470																	
	STD	0100	-0034	3357	2699		0010732		0138		14474																	
135	OBS	0123	0031	33765	2712						14510																	
	STD	0125	0036	3378	2712		0009475		0163		14513																	
135	OBS	0147	0080	33901	2720						14538																	
	STD	0150	0082	3391	2720		0008755		0186		14540																	
135	OBS	T0195	0097	33946	2722						14555																	
	STD	0200	0097	3395	2722		0008582		0229		14555																	
135	OBS	T0207	0096	33947	2722						14556																	

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311529	1S	72385N	05804 W	258	28	08	24	160	1969	WGS	016	0172	00	0	X		X2	6	8			0017	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB	VIS. CODE		NO. OBS. DEPTHS								
								00	500	250	037	030	7	10									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S °C			
		STD	0000	0521	3237	2559		0024055		0000		14684											
160		OBS	0000	0521	32367	2559						14684											
		STD	0010	0431	3260	2587		0021367		0023		14651											
160		OBS	0010	0431	32603	2587						14651											
		STD	0020	0163	3298	2640		0016336		0042		14542											
160		OBS	0020	0163	32978	2640						14542											
		STD	0030	0017	3325	2671		0013436		0056		14481											
160		OBS	0030	0017	33249	2671						14481											
		STD	0050	-0070	3341	2687		0011864		0082		14447											
160		OBS	0050	-0070	33405	2687						14447											
		STD	0075	-0045	3355	2698		0010876		0110		14464											
160		OBS	0075	-0045	33546	2698						14464											
		STD	0100	-0026	3362	2703		0010387		0137		14478											
160		OBS	0101	-0025	33621	2703						14479											
		STD	0125	0020	3374	2710		0009693		0162		14505											
160		OBS	0126	0022	33742	2710						14506											
		STD	0150	0065	3385	2716		0009108		0185		14531											
160		OBS	T0152	0067	33856	2717						14533											
160		OBS	T0161	0072	33858	2717						14536											

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DAY INDIC	MARSDEN SQUARE 10° 1°	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE		AMT
311529	15		72329N	058555W	258	28 08 24	182	1969	WGS 017		0245		00	0	X		X1	6	7		0018	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	VLS. CODE	NO. OBS. DEPTHS							
									00	500	420	029	018	7	11							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O DTN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SIO ₄ -Si µg - at/l	pH				
		STD	0000	0567	3252	2566	0023434		0000		14705											
182		OBS	0000	0567	32517	2566					14705											
		STD	0010	0557	3255	2569	0023100		0023		14703											
182		OBS	0010	0557	32548	2569					14703											
		STD	0020	0125	3307	2650	0015379		0043		14526											
182		OBS	0020	0125	33072	2650					14526											
		STD	0030	0003	3322	2669	0013591		0057		14475											
182		OBS	0031	-0007	33237	2671					14470											
		STD	0050	-0108	3338	2686	0011923		0083		14429											
182		OBS	0052	-0113	33391	2688					14427											
		STD	0075	-0082	3351	2696	0011005		0111		14447											
182		OBS	0077	-0078	33518	2697					14449											
		STD	0100	-0027	3365	2705	0010153		0138		14478											
182		OBS	0102	-0022	33667	2706					14481											
		STD	0125	0046	3382	2715	0009226		0162		14518											
182		OBS	0128	0053	33837	2716					14522											
		STD	0150	0089	3393	2721	0008647		0184		14543											
182		OBS	T0154	0095	33945	2722					14547											
		STD	0200	0148	3408	2729	0007924		0226		14580											
182		OBS	T0200	0148	34079	2729					14580											
182		OBS	T0237	0158	34094	2730					14591											

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DAY INDIC	MARSDEN SQUARE 10° 1°	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DR.	HGT	PER		SEA	TYPE		AMT
311529	15		72280N	059480W	258	29 08 24	213	1969	WGS 018		0420		00	0	X		X1	6	7		0019	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VLS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	VLS. CODE	NO. OBS. DEPTHS							
									32	505	051	025	012	7	13							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107		Σ Δ O DTN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SIO ₄ -Si µg - at/l	pH				
		STD	0000	0563	3157	2492	0030465		0000		14690											
213		OBS	0000	0563	31574	2492					14690											
		STD	0010	0132	3238	2595	0020654		0026		14518											
213		OBS	0010	0132	32384	2595					14518											
		STD	0020	-0099	3321	2673	0013248		0043		14426											
213		OBS	0020	-0099	33213	2673					14426											
		STD	0030	-0146	3330	2681	0012438		0055		14406											
213		OBS	0031	-0149	33306	2682					14405											
		STD	0050	-0168	3338	2688	0011755		0080		14400											
213		OBS	0051	-0169	33388	2689					14400											
		STD	0075	-0168	3343	2692	0011353		0108		14405											
213		OBS	0076	-0167	33435	2693					14406											
		STD	0100	-0134	3347	2695	0011123		0137		14426											
213		OBS	0102	-0131	33475	2695					14428											
		STD	0125	-0096	3364	2707	0009936		0163		14450											
213		OBS	0127	-0091	33655	2708					14453											
		STD	0150	-0020	3377	2714	0009258		0187		14491											
213		OBS	T0151	-0017	33780	2715					14493											
		STD	0200	0109	3404	2729	0007949		0230		14562											
213		OBS	T0204	0117	34062	2730					14567											
		STD	0250	0183	3426	2741	0006835		0267		14606											
		STD	0300	0235	3442	2750	0006078		0299		14640											
213		OBS	T0301	0236	34423	2750					14640											
		STD	0400	0273	3455	2757	0005499		0357		14674											
213		OBS	T0405	0275	34551	2757					14676											
213		OBS	0415	0275	34556	2758					14678											

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311529		1S	72230N	060450W	259	20	08	24	234	1969		WGS	019		0610		00	0	X		X8	6 6	0020
						WATER		WIND		AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB											
								01	S04	061	016	007	7	14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC						
		STD	0000	0418	2881	2288	0049881	0000	14593														
234		OBS	0000	0418	28808	2288			14593														
		STD	0010	0198	3199	2559	0024041	0037	14542														
234		OBS	0010	0198	31994	2559			14542														
		STD	0020	0012	3299	2650	0015361	0057	14474														
234		OBS	0020	0012	32994	2650			14474														
		STD	0030	-0105	3323	2674	0013070	0071	14425														
234		OBS	0030	-0105	33233	2674			14425														
		STD	0050	-0161	3336	2686	0011941	0096	14403														
234		OBS	0050	-0161	33358	2686			14403														
		STD	0075	-0160	3340	2690	0011603	0125	14409														
234		OBS	0076	-0160	33407	2690			14409														
		STD	0100	-0122	3349	2696	0011007	0154	14432														
234		OBS	0101	-0120	33500	2697			14433														
		STD	0125	-0040	3366	2707	0010011	0180	14477														
234		OBS	0126	-0037	33670	2707			14478														
		STD	0150	0004	3379	2715	0009225	0204	14503														
234		OBS	0151	0006	33794	2715			14504														
		STD	0200	0083	3401	2728	0008006	0247	14550														
234		OBS	T0203	0087	34020	2729			14552														
		STD	0250	0111	3416	2739	0007062	0285	14573														
		STD	0300	0136	3429	2747	0006260	0318	14594														
234		OBS	T0300	0136	34291	2747			14594														
		STD	0400	0181	3446	2758	0005346	0376	14633														
234		OBS	T0404	0182	34470	2758			14634														
		STD	0500	0181	3451	2762	0005032	0428	14650														
234		OBS	T0501	0181	34515	2762			14651														
		STD	0600	0121	3452	2767	0004495	0476	14641														
234		OBS	T0602	0119	34521	2767			14640														

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBS. NO.	MARCOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
311529	1S	72110N	062450W	259	22	08	25	057	1969	WGS	021	2110	00	0	X	X7	6	8			0021	
		WATER	WIND	BARO- METER (mb)	AIR TEMP. °C	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE																			
		99	S06	059	018	014	7	17														
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	$\Sigma \Delta \sigma_t$ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C					
		STD	0000	0001	2466	1981	0079356	0000	14351													
057		OBS	0000	0001	24656	1981			14351													
		STD	0010	-0076	3218	2589	0021240	0050	14420													
057		OBS	0010	-0076	32181	2589			14420													
		STD	0020	-0153	3300	2657	0014708	0068	14397													
057		OBS	0020	-0153	33003	2657			14397													
		STD	0030	-0149	3324	2676	0012883	0082	14404													
057		OBS	0030	-0149	33241	2676			14404													
		STD	0050	-0173	3336	2687	0011897	0107	14398													
057		OBS	0050	-0173	33360	2687			14398													
		STD	0075	-0175	3342	2691	0011429	0136	14402													
057		OBS	0075	-0175	33420	2692			14402													
		STD	0100	-0160	3349	2697	0010896	0164	14414													
057		OBS	0101	-0159	33492	2697			14415													
		STD	0125	-0150	3357	2703	0010295	0190	14424													
		STD	0150	-0140	3365	2709	0009697	0215	14434													
057		OBS	0152	-0139	33658	2710			14435													
		STD	0200	-0035	3382	2719	0008793	0262	14494													
057		OBS	0202	-0031	33825	2719			14496													
		STD	0250	0036	3402	2732	0007643	0303	14537													
		STD	0300	0092	3418	2741	0006788	0339	14573													
		STD	0400	0163	3441	2755	0005599	0401	14624													
057		OBS	T0404	0165	34418	2755			14626													
		STD	0500	0159	3443	2757	0005450	0456	14639													
		STD	0600	0142	3445	2760	0005190	0509	14649													
057		OBS	T0604	0141	34453	2760			14649													
		STD	0700	0105	3448	2765	0004688	0559	14649													
		STD	0800	0073	3449	2767	0004374	0604	14652													
057		OBS	0805	0072	34491	2768			14652													
		STD	0900	0051	3448	2768	0004276	0647	14659													
		STD	1000	0032	3447	2768	0004204	0690	14667													
057		OBS	T1006	0031	34470	2768			14667													
		STD	1100	0018	3447	2769	0004084	0731	14677													
		STD	1200	0005	3447	2770	0003960	0771	14688													
057		OBS	T1211	0004	34474	2770			14690													
		STD	1300	-0008	3447	2771	0003846	0810	14699													
		STD	1400	-0020	3447	2771	0003744	0848	14711													
		STD	1500	-0029	3447	2772	0003662	0885	14724													
066		OBS	T1510	-0030	34472	2772			14725													
		STD	1750	-0036	3449	2773	0003432	0974	14763													
066		STD	2000	-0042	3449	2774	0003337	1058	14803													
066		OBS	T2018	-0042	34492	2774			14806													
066		OBS	T2120	-0040	34490	2773			14825													

TABLE II.—Continued

REFERENCE CITY CODE	IO. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN 10"	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1"	MO	OAT		NR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
						COLOR CODE	TRANS. m	WIND DIR.	SPEED OR FORCE		BARO- METER (mb)												
311529	1S	72050N	063300W	259	23	08	25	095	1969	WGS 022		2200		00	0	X		X2	6	8		0022	

TABLE II.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DIRECTION	MARSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S' MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT PER SEA		TYPE	AMT	
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		BARO- METER (mba)	DRY BULB										
311529	1S	72315N	063595W		259	23	08	25	140	1969	WGS	023	2220		36	0	2		X7	6	8	0023
</																						

TABLE II.—Continued

REFERENCE CTRY CODE	SHIP HO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT MO/10	MARS SQUARE		STATION TIME IGMT/10			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAR. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	OAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT		
						COLOR CODE	TRANS. UNIT	DIR.	WIND SPEED OR FORCE	BARO- METER IMB/1													AIR TEMP. °C
311529	1S		72570N	064285W		259	24	08	25	190	1969	WGS 024		2100		00	0	X		X7	6	8	0024

TABLE II.—Continued

REFERENCE CTRY CODE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
311529	15	73245N	064580W		259	34	08	25	237	1969	WGS	025	2185		00	0	X		X8	6	9	0025
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
							34	S06	590	031	025	7	17									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SID ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
		STD	0000	0261	3015	2408	0038478	0000	14543													
237		OBS	0000	0261	30150	2408			14543													
		STD	0010	-0048	3246	2610	0019167	0029	14437													
237		OBS	0010	-0048	32464	2610			14437													
		STD	0020	-0138	3309	2664	0014078	0045	14405													
237		OBS	0021	-0143	33132	2667			14404													
		STD	0030	-0152	3330	2681	0012423	0059	14403													
237		OBS	0031	-0153	33317	2683			14403													
		STD	0050	-0168	3342	2691	0011448	0083	14401													
237		OBS	0052	-0169	33425	2692			14401													
		STD	0075	-0166	3347	2695	0011051	0111	14407													
237		OBS	0078	-0165	33480	2696			14408													
		STD	0100	-0161	3354	2701	0010510	0138	14414													
237		OBS	0104	-0158	33554	2702			14416													
		STD	0125	-0126	3364	2708	0009832	0163	14436													
		STD	0150	-0071	3375	2715	0009183	0187	14468													
237		OBS	0155	-0058	33775	2717			14475													
		STD	0200	0103	3402	2728	0008060	0230	14559													
237		OBS	0207	0125	34048	2729			14571													
		STD	0250	0130	3415	2736	0007268	0268	14581													
		STD	0300	0135	3426	2745	0006488	0303	14593													
		STD	0400	0146	3442	2757	0005390	0362	14617													
237		OBS	0415		34442																	
		STD	0500	0157	3451	2763	0004831	0413	14640													
		STD	0600	0168	3455	2766	0004655	0461	14662													
237		OBS	T0622	0170	34553	2766			14666													
		STD	0700	0141	3454	2767	0004536	0507	14666													
		STD	0800	0106	3452	2768	0004417	0551	14667													
237		OBS	0832	0095	34516	2768			14668													
		STD	0900	0072	3450	2769	0004272	0595	14669													
		STD	1000	0043	3449	2769	0004172	0637	14672													
237		OBS	T1040	0034	34480	2769			14675													
		STD	1100	0025	3448	2769	0004080	0678	14681													
		STD	1200	0011	3448	2770	0003964	0718	14691													
237		OBS	T1248	0005	34480	2770			14697													
		STD	1300	-0001	3448	2771	0003845	0757	14703													
		STD	1400	-0012	3449	2772	0003719	0795	14714													
		STD	1500	-0024	3449	2773	0003588	0832	14726													
244		OBS	T1503	-0024	34488	2773			14727													
		STD	1750	-0033	3449	2773	0003429	0920	14765													
		STD	2000	-0042	3450	2774	0003262	1003	14804													
244		OBS	T2009	-0042	34500	2774			14805													
244		OBS	T2162	-0039	34500	2774			14833													

TABLE II.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAZEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT		PER	SEA	TYPE	AMT
					COLOR CODE	TRANS. IN		DIR.	SPEED OR FORCE			BARO- METER (mb)	DRY BULB	WET BULB		VIS. CODE	NO. OBS. DEPTH		SPECIAL OBSERVATIONS			
311529	1S	73487N	065295W	259	35	08 26 043	1969	WGS	026	2195		00	0	X		X2	6 8	0026				
						22	S10	059	029	020	7	17										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Delta \rho$ OBS. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₃ -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO ₂ -N $\mu\text{g} \cdot \text{ml}^{-1}$	SIO ₄ -SI $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S CUT					
		STD	0000	0338	3049	2429	0036461	0000	14581	827												
		OBS	0000	0338	30493	2429			14581	827												
		STD	0010	-0052	3266	2626	0017682	0027	14438	1041												
043		OBS	0010	-0052	32656	2626			14438	1041												
		STD	0020	-0102	3322	2673	0013216	0043	14424	970												
043		OBS	0020	-0102	33216	2673			14424	970												
		STD	0030	-0161	3337	2687	0011901	0055	14400	818												
043		OBS	0030	-0161	33365	2687			14400	818												
		STD	0050	-0165	3348	2696	0011017	0078	14403	803												
043		OBS	0050	-0165	33477	2696			14403	803												
		STD	0075	-0174	3352	2700	0010655	0105	14404	798												
043		OBS	0075	-0174	33519	2700			14404	798												
		STD	0100	-0158	3357	2703	0010303	0131	14416	791												
043		OBS	0100	-0158	33568	2703			14416	791												
		STD	0125	-0128	3364	2708	0009826	0156	14435	744												
		STD	0150	-0087	3374	2715	0009226	0180	14460	704												
043		OBS	0150	-0087	33736	2715			14460	704												
		STD	0200	0024	3397	2728	0007988	0223	14523	649												
043		OBS	0200	0024	33966	2728			14523	649												
		STD	0250	0063	3411	2737	0007125	0261	14551	629												
		STD	0300	0095	3423	2745	0006431	0295	14575	611												
		STD	0400	0135	3441	2757	0005389	0354	14612	582												
043		OBS	T0400	0135	34409	2757			14612	582												
		STD	0500	0133	3447	2762	0004941	0406	14629	564												
		STD	0600	0122	3450	2765	0004661	0454	14641	548												
043		OBS	T0600	0122	34499	2765			14641	548												
		STD	0700	0096	3450	2766	0004497	0500	14646	534												
		STD	0800	0073	3449	2768	0004359	0544	14652	520												
043		OBS	T0803	0072	34492	2768			14652	520												
		STD	0900	0054	3448	2768	0004306	0587	14660	515												
		STD	1000	0035	3448	2769	0004162	0629	14668	510												
043		OBS	T1001	0035	34476	2769			14668	510												
		STD	1100	0021	3447	2769	0004093	0671	14679	471												
		STD	1200	0009	3447	2770	0004014	0711	14690	441												
043		OBS	T1206	0008	34471	2770			14691	439												
		STD	1300	0003	3448	2771	0003896	0751	14705	427												
		STD	1400	-0002	3448	2771	0003847	0790	14719	415												
		STD	1500	-0006	3448	2771	0003797	0828	14734	402												
051		OBS	1503		34484				402													
		STD	1750	-0019	3449	2772	0003616	0920	14771	366												
051		OBS	1997		34489				344													
		STD	2000	-0031	3449	2773	0003439	1009	14808	344												
051		OBS	T2165	-0039	34500	2774			14833	337												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MD	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
311529	1S		73555N	064150W		259	34	08	26	080	1969	WGS 027		0850		25	1	2		X2	6	8	0027
		WATER		WIND		BARD- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	028	018	7	15														
						22	S05	079		028	018	7	15										
MESSENGER TIME OF NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ σ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - dl/l	TOTAL-P μg - dl/l	NO ₂ -N μg - dl/l	NO ₃ -N μg - dl/l	SiO ₄ -Si μg - dl/l	pH	S						
		STD	0000	0266	3001	2396	0039569	0000	14544	854													
	080	OBS	0000	0266	30011	2396			14544	854													
		STD	0010	-0018	3289	2644	0015995	0028	14457	1017													
	080	OBS	0010	-0018	32894	2644			14457	1017													
		STD	0020	-0106	3323	2675	0013073	0042	14423	949													
	080	OBS	0020	-0106	33233	2675			14423	949													
		STD	0030	-0130	3324	2676	0012957	0055	14413	848													
	080	OBS	0030	-0130	33238	2676			14413	848													
		STD	0050	-0119	3344	2692	0011429	0080	14424	773													
	080	OBS	0050	-0119	33440	2692			14424	773													
		STD	0075	-0163	3350	2698	0010844	0108	14409	770													
	080	OBS	0075	-0163	33498	2698			14409	770													
		STD	0100	-0168	3355	2702	0010415	0134	14411	765													
	080	OBS	0100	-0168	33550	2702			14411	765													
		STD	0125	-0090	3366	2709	0009806	0159	14453	715													
		STD	0150	-0028	3377	2715	0009220	0183	14488	674													
	080	OBS	0151	-0026	33774	2715			14489	673													
		STD	0200	0046	3398	2728	0008008	0226	14533	624													
	080	OBS	0201	0047	33987	2729			14534	623													
		STD	0250	0123	3418	2739	0006994	0264	14579	598													
		STD	0300	0182	3434	2748	0006212	0297	14615	583													
	080	OBS	T0300	0182	34344	2748			14615	583													
		STD	0400	0240	3455	2760	0005201	0354	14660	582													
	080	OBS	T0401	0241	34554	2760			14661	582													
		STD	0500	0227	3458	2763	0004939	0405	14671	567													
	080	OBS	T0503	0226	34577	2763			14671	566													
		STD	0600	0188	3457	2766	0004682	0453	14671	556													
	080	OBS	T0605	0186	34570	2766			14671	555													
		STD	0700	0137	3454	2767	0004502	0499	14665	530													
		STD	0800	0070	3450	2768	0004275	0542	14651	503													
	080	OBS	T0806	0065	34498	2769			14650	501													
	080	OBS	T0825	0050	34490	2769			14646	481													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER							
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT				
311529	1S	74030N	063100W	259	43 08 26 106	1969	WGS	028	0723	25	1	2			X2	6	8	0028									
MESSAGE TIME NR 1/10		CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	COND.									
																			WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
																			COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB			
							22	S08	103	028	018	7	15														
		STD	0000	0464	3045	2413		0037938	0000	14634	768																
	106	OBS	0000	0464	30445	2413				14634	768																
		STD	0010	0029	3288	2640		0016314	0027	14478	988																
	106	OBS	0010	0029	32880	2640				14478	988																
	106	OBS	0019	-0065	33199	2670				14441	968																
		STD	0020	-0073	3321	2672		0013359	0042	14438	957																
	106	OBS	0028	-0127	33304	2681				14415	882																
		STD	0030	-0131	3331	2682		0012402	0055	14414	870																
	106	OBS	0047	-0154	33391	2689				14407	794																
		STD	0050	-0154	3340	2689		0011636	0079	14407	792																
	106	OBS	0070	-0154	33464	2695				14411	775																
		STD	0075	-0151	3347	2695		0011090	0107	14414	771																
	106	OBS	0093	-0127	33518	2698				14429	750																
		STD	0100	-0102	3356	2701		0010539	0134	14442	732																
		STD	0125	-0025	3370	2709		0009774	0160	14484	680																
	106	OBS	T0136	0002	33753	2712				14499	663																
		STD	0150	0026	3382	2716		0009114	0183	14513	650																
	106	OBS	0181	0075	33957	2724				14543	626																
		STD	0200	0099	3403	2729		0007958	0226	14557	617																
		STD	0250	0154	3419	2738		0007143	0264	14593	598																
	106	OBS	0274	0177	34264	2742				14608	591																
		STD	0300	0206	3434	2746		0006436	0298	14626	588																
	106	OBS	0369	0247	34490	2755				14657	578																
		STD	0400	0237	3452	2758		0005396	0357	14658	570																
	106	OBS	T0463	0220	34551	2762				14662	559																
		STD	0500	0218	3455	2762		0005023	0409	14667	559																
	106	OBS	T0559	0198	34560	2764				14668	553																
		STD	0600	0166	3455	2766		0004642	0457	14661	543																
	106	OBS	T0658	0121	34526	2767				14650	524																
	106	OBS	T0678	0106	34516	2767				14647	516																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER							
CTRY CODE	IO. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT				
311529	1S	74075N	062080W	259	42 08 26 128	1969	WGS	029	0625	26	0	2			X2	6	8	0029									
MESSAGE TIME NR 1/10		CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \sigma$ DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	COND.									
																			WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS
																			COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB			
							22	S10	098	028	021	7	15														
		STD	0000	0377	3026	2407		0038525	0000	14595	796																
	128	OBS	0000	0377	30263	2407				14595	796																
		STD	0010	-0037	3293	2648		0015642	0027	14449	977																
	128	OBS	0011	-0061	33064	2659				14440	995																
		STD	0020	-0134	3323	2675		0013029	0041	14409	804																
	128	OBS	0020	-0134	33228	2675				14409	804																
		STD	0030	-0134	3328	2679		0012624	0054	14412	792																
	128	OBS	0031	-0134	33285	2680				14412	791																
		STD	0050	-0156	3339	2689		0011677	0079	14406	798																
	128	OBS	0050	-0156	33394	2689				14406	798																
		STD	0075	-0151	3348	2696		0011036	0107	14414	789																
	128	OBS	0076	-0151	33480	2696				14414	788																
		STD	0100	-0154	3353	2700		0010606	0134	14417	756																
	128	OBS	0101	-0154	33533	2700				14418	754																
		STD	0125	-0084	3364	2707		0009981	0160	14456	709																
	128	OBS	T0127	-0078	33647	2707				14459	705																
		STD	0150	-0007	3379	2715		0009170	0184	14498	662																
	128	OBS	0152	-0002	33804	2716				14501	659																
		STD	0200	0085	3402	2729		0007943	0226	14551	616																
	128	OBS	0203	0090	34029	2729				14554	614																
		STD	0250	0151	3419	2738		0007136	0264	14591	599																
		STD	0300	0199	3436	2748		0006251	0298	14623	582																
	128	OBS	T0301	0200	34360	2748				14624	582																
	128	OBS	T0399	0245	34538	2759				14662	581																
		STD	0400	0245	3454	2759		0005317	0355	14662	581																
	128	OBS	T0491	0203	34548	2763				14659	548																
		STD	0500	0193																							
	128	OBS	T0585	0148																							
	128	OBS	0596	0149																							

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
311529	1S		74140N	061010W	259	41	08	26	152	1969	WGS	030	0642		21	1	2		X2	6	8		0030			
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
								22	S06	129		032	024	7	15											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DTN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CD									
		STD	0000	0444	2983	2367	0042382	0000	14618	784																
152		OBS	0000	0444	29831	2367			14618	784																
		STD	0010	0121	3265	2617	0018541	0030	14517	988																
152		OBS	0010	0121	32653	2617			14517	988																
		STD	0020	-0063	3314	2665	0013947	0047	14441	1001																
152		OBS	0020	-0063	33138	2665			14441	1001																
		STD	0030	-0137	3328	2680	0012592	0060	14410	840																
152		OBS	0030	-0137	33283	2680			14410	840																
		STD	0050	-0145	3336	2686	0011951	0085	14411	806																
152		OBS	0050	-0145	33362	2686			14411	806																
		STD	0075	-0151	3342	2691	0011474	0114	14413	884																
152		OBS	0076	-0151	33425	2691			14413	887																
		STD	0100	-0114	3351	2697	0010880	0142	14436	754																
152		OBS	0101	-0111	33512	2697			14438	750																
		STD	0125	-0013	3366	2705	0010136	0168	14489	676																
152		OBS	0126	-0010	33667	2706			14491	674																
		STD	0150	0034	3381	2715	0009234	0192	14517	657																
152		OBS	0152	0038	33823	2716			14519	656																
		STD	0200	0132	3407	2730	0007879	0235	14573	618																
152		OBS	0202	0135	34080	2730			14575	617																
		STD	0250	0189	3425	2740	0006957	0272	14609	598																
		STD	0300	0222	3438	2748	0006268	0305	14633	581																
152		OBS	0304	0223	34388	2749			14635	580																
		STD	0400	0209	3450	2758	0005336	0363	14646	555																
152		OBS	T0403	0209	34499	2759			14646	554																
		STD	0500	0217	3457	2764	0004891	0414	14667	651																
152		OBS	T0504	0217	34572	2764			14668	653																
		STD	0600	0152	3455	2767	0004523	0461	14655	649																
152		OBS	T0608	0149	34549	2767			14655	649																
152		OBS	T0633	0141	34546	2767			14655	544																

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
311529	15		74180N	059550W		258	49	08	26	175	1969	WGS	031		0732		22	1	X		X2	6	8		0031
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. INCH	DIR.	SPEED OR FORCE	DRY BULB	WET BULB														
								14	S05	149	041	033	7	15											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	Si O ₄ -Si $\mu\text{g} - \text{at/l}$	pH	SCC							
		STD	0000	0504	3068	2428	0036547		0000	14654	746														
175		OBS	0000	0504	30682	2428				14654	746														
		STD	0010	0100	3254	2609	0019287		0028	14506	949														
175		OBS	0010	0100	32539	2609				14506	949														
		STD	0020	-0046	3309	2660	0014417		0045	14448	990														
175		OBS	0020	-0046	33085	2660				14448	990														
		STD	0030	-0118	3324	2675	0013007		0058	14419	833														
175		OBS	0030	-0118	33236	2675				14419	833														
		STD	0050	-0137	3334	2684	0012142		0084	14414	779														
175		OBS	0051	-0138	33342	2684				14414	777														
		STD	0075	-0099	3346	2693	0011327		0113	14438	746														
175		OBS	0076	-0097	33468	2693				14439	744														
		STD	0100	-0016	3362	2702	0010433		0140	14483	682														
175		OBS	0102	-0010	33628	2703				14486	678														
		STD	0125	0035	3375	2710	0009697		0165	14512	662														
		STD	0150	0080	3387	2717	0009047		0189	14538	642														
175		OBS	T0152	0083	33884	2718				14540	640														
		STD	0200	0156	3411	2731	0007748		0231	14584	595														
175		OBS	0204	0161	34128	2732				14587	592														
		STD	0250	0191	3426	2741	0006898		0267	14610	579														
		STD	0300	0212	3437	2748	0006260		0300	14629	565														
175		OBS	T0305	0213	34383	2749				14630	564														
		STD	0400	0214	3450	2758	0005344		0358	14648	655														
175		OBS	T0406	0214	34504	2759				14649	658														
		STD	0500	0190	3453	2762	0004958		0410	14655	657														
175		OBS	T0505	0189	34534	2763				14655	654														
		STD	0600	0166	3454	2765	0004717		0458	14661	534														
175		OBS	T0606	0164	34545	2766				14661	530														
		STD	0700	0139	3454	2767	0004519		0504	14665	519														
175		OBS	T0706	0138	34540	2767				14666	517														
175		OBS	T0721	0135	34539	2767				14667	511														

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT	MARS DEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD		NOCC	
CTRY	ID.	CODE	1/10	1/10	INCH	SQUARE	SQUARE	IGMT	HR./10		CRUISE	STATION	TO	DEPTH	DIR.	HGT	PER	SEA	THER	TYPE	AMT	STATION	
CODE	NO.					10"	1"	MO	DAY		NO.	NUMBER	BOTTOM	OF					CODE			NUMBER	
311529	1S		74290N	058470W		258	48 08	26	198	1969	WGS	032	0342		00	0	X		X2	6	8	0032	
						WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL					
						COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	NO.	OBS.									
						CODE	(m)		OR FORCE	(mba)	BULB	BULB	COORD	DEPTHS									
									14	S05	149	041	033	7	12								
MESSNGR	CAST	CARD	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME		Σ Δ D	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH						
TIME	NO.	TYPE					ANOMALY- σ_t	X 10 ³	DYN. M.	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l							
HR 1/10									X 10 ³														
		STD	0000	0469	3091	2449	0034505	0000		14643	791												
198		OBS	0000	0469	30907	2449				14643	791												
		STD	0010	0006	3287	2641	0016306	0025		14468	993												
198		OBS	0010	0006	32867	2641				14468	993												
		STD	0020	-0117	3322	2674	0013139	0040		14417	878												
198		OBS	0021	-0124	33242	2676				14414	870												
		STD	0030	-0142	3329	2680	0012525	0053		14408	836												
198		OBS	0031	-0143	33292	2680				14408	833												
		STD	0050	-0151	3336	2686	0011951	0077		14408	789												
198		OBS	0052	-0152	33361	2686				14408	786												
		STD	0075	-0134	3342	2691	0011522	0107		14421	766												
198		OBS	0077	-0130	33426	2691				14423	763												
		STD	0100	-0056	3360	2702	0010409	0134		14464	716												
198		OBS	0103	-0046	33622	2704				14470	711												
		STD	0125	0031	3369	2706	0010132	0160		14510	690												
198		OBS	T0130	0044	33714	2707				14517	684												
		STD	0150	0081	3388	2718	0008977	0184		14539	658												
198		OBS	0154	0087	33909	2720				14543	654												
		STD	0200	0138	3406	2729	0007997	0226		14575	632												
198		OBS	T0207	0145	34077	2730				14580	629												
		STD	0250	0166	3416	2735	0007459	0265		14597	618												
		STD	0300	0196	3428	2742	0006807	0300		14621	601												
198		OBS	T0306	0200	34292	2743				14623	599												
198		OBS	T0319	0209	34328	2745				14630	594												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311529	1S	74298N	057470W	258	47	08 26 225	1969	WGS	033		0850		00	0	X		X2	6 8		0033	
						WATER	WIND	AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLDR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB									
									00	S00	169	044	029	8	15						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C				
		STD	0000	0362	3081	2452	0034269	0000	14596	863											
225		OBS	0000	0362	30809	2452			14596	863											
		STD	0010	0340	3205	2552	0024736	0030	14605	977											
225		OBS	0010	0340	32046	2552			14605	977											
		STD	0020	0067	3283	2635	0016872	0050	14497	1046											
225		OBS	0020	0067	32832	2635			14497	1046											
		STD	0030	0099	3308	2652	0015177	0066	14516	951											
225		OBS	0030	0099	33078	2652			14516	951											
		STD	0050	-0005	3335	2680	0012526	0094	14476	806											
225		OBS	0050	-0005	33354	2680			14476	806											
		STD	0075	0002	3359	2699	0010752	0123	14487	723											
225		OBS	0076	0002	33594	2699			14487	721											
		STD	0100	0017	3369	2706	0010062	0149	14499	694											
225		OBS	0101	0018	33697	2707			14500	693											
		STD	0125	0049	3378	2712	0009547	0174	14519	662											
		STD	0150	0071	3385	2716	0009144	0197	14534	634											
225		OBS	T0153	0073	33863	2717			14536	631											
		STD	0200	0086	3400	2727	0008101	0240	14551	590											
225		OBS	0202	0087	34005	2728			14552	589											
		STD	0250	0125	3412	2734	0007462	0279	14579	585											
		STD	0300	0151	3422	2741	0006908	0315	14600	578											
225		OBS	T0304	0152	34224	2741			14601	577											
		STD	0400	0161	3435	2750	0006033	0380	14623	551											
225		OBS	T0403	0161	34355	2751			14623	550											
		STD	0500	0180	3447	2758	0005359	0437	14649	545											
225		OBS	T0501	0180	34466	2758			14649	545											
		STD	0600	0191	3452	2762	0005081	0489	14671	544											
225		OBS	T0602	0191	34524	2762			14672	544											
		STD	0700	0195	3454	2763	0005011	0539	14690	546											
225		OBS	T0799	0198	34554	2764			14708	548											
		STD	0800	0198	3455	2764	0004977	0589	14708	548											
225		OBS	T0831	0199	34555	2764			14714	550											

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
311529	1S	75570N	060470W	259	50	08 27 149	1969	WGS	034		0164		00	0	X		X2	4 8		0034	
						WATER	WIND	AIR TEMP. °C				VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLDR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB									
									00	S00	168	028	021	7	10						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH	S C				
		STD	0000	0192	2661	2130	0065005	0000	14465	841											
149		OBS	0000	0192	26613	2130			14465	841											
		STD	0010	0218	3177	2540	0025871	0045	14548	1072											
149		OBS	0010	0218	31771	2540			14548	1072											
		STD	0020	0044	3269	2624	0017874	0067	14484	1028											
149		OBS	0020	0044	32685	2624			14484	1028											
		STD	0030	-0030	3293	2647	0015655	0084	14455	927											
149		OBS	0030	-0030	32931	2647			14455	927											
		STD	0050	-0055	3320	2670	0013474	0113	14451	722											
149		OBS	0050	-0055	33202	2670			14451	722											
		STD	0075	-0038	3343	2688	0011776	0145	14466	611											
149		OBS	0075	-0038	33432	2688			14466	611											
		STD	0100	-0012	3357	2698	0010856	0173	14484	604											
149		OBS	0100	-0012	33567	2698			14484	604											
		STD	0125	0017	3368	2705	0010157	0199	14503	594											
149		OBS	0125	0017	33677	2705			14503	594											
		STD	0150		3375					589											
149		OBS	0150		33750					589											
149		OBS	0155		33774					585											

REFERENCE CTRY CODE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS DEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
					SQUARE	IGMT	MD	DAY HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
																						10"	1"		
311529	1S	75570N	060470W		259	50	08	27	149	1969	WGS 034	0164		00	0	X		X2	4	8		0034			
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. INT.	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
							00	500		168	028					021	7	10							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P µg - al/l	TOTAL-P µg - al/l	NO ₂ -N µg - al/l	NO ₃ -N µg - al/l	SiO ₄ -Si µg - al/l	pH							
		STD	0000	0192	2661	2130		0065005		0000	14465	841													
149		OBS	0000	0192	26613	2130					14465	841													
		STD	0010	0218	3177	2540		0025871		0045	14548	1072													
149		OBS	0010	0218	31771	2540					14548	1072													
		STD	0020	0044	3269	2624		0017874		0067	14484	1028													
149		OBS	0020	0044	32685	2624					14484	1028													
		STD	0030	-0030	3293	2647		0015655		0084	14455	927													
149		OBS	0030	-0030	32931	2647					14455	927													
		STD	0050	-0055	3320	2670		0013474		0113	14451	722													
149		OBS	0050	-0055	33202	2670					14451	722													
		STD	0075	-0038	3343	2688		0011776		0145	14466	611													
149		OBS	0075	-0038	33432	2688					14466	611													
		STD	0100	-0012	3357	2698		0010856		0173	14484	604													
149		OBS	0100	-0012	33567	2698					14484	604													
		STD	0125	0017	3368	2705		0010157		0199	14503	594													
149		OBS	0125	0017	33677	2705					14503	594													
		STD	0150		3375							589													
149		OBS	0150		33750							589													
149		OBS	0155		33774							585													

TABLE II.—Continued

REFERENCE	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT NO.	MARS SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
311529	1S	75450N	061020W		259	51	08	27	198	1969	WGS	035	0439		00	0	X		X1	6	7		0035	
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
					COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB		WET BULB									
									00		500		149		043		033		7		14			
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ol/l	TOTAL-P µg - ol/l	NO ₂ -N µg - ol/l	NO ₃ -N µg - ol/l	SiO ₄ -Si µg - ol/l	pH	S C					
		STD	0000	0527	3058	2417		0037557		0000	14662	750												
198		OBS	0000	0527	30579	2417					14662	750												
		STD	0010	0479	3183	2521		0027684		0033	14661	886												
198		OBS	0010	0479	31827	2521					14661	886												
		STD	0020	0107	3284	2633		0017066		0055	14515	1023												
198		OBS	0020	0107	32836	2633					14515	1023												
		STD	0030	-0011	3310	2660		0014421		0071	14466	943												
198		OBS	0030	-0011	33103	2660					14466	943												
		STD	0050	-0053	3335	2682		0012350		0098	14454	652												
198		OBS	0051	-0054	33363	2683					14454	644												
		STD	0075	-0021	3353	2695		0011103		0127	14475	629												
198		OBS	0076	-0019	33536	2696					14476	628												
		STD	0100	0021	3367	2704		0010235		0153	14501	608												
198		OBS	0101	0023	33671	2704					14502	607												
		STD	0125	0054	3378	2711		0009576		0178	14521	601												
198		OBS	0127	0057	33786	2712					14523	600												
		STD	0150	0085	3388	2718		0009001		0201	14541	593												
198		OBS	0152	0087	33892	2719					14542	592												
		STD	0200	0122	3405	2729		0007961		0244	14568	584												
198		OBS	T0202	0123	34059	2730					14569	583												
		STD	0250	0158	3419	2738		0007172		0282	14594	566												
198		OBS	T0254	0160	34200	2738					14596	564												
		STD	0300	0176	3432	2747		0006346		0316	14612	540												
198		OBS	T0304	0177	34331	2748					14614	538												
		STD	0400	0197	3442	2753		0005802		0376	14640	529												
198		OBS	T0404	0197	34422	2753					14640	528												
198		OBS	0429		34424							523												

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT NO.	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
311529	1S		76050N	061500W	259	61	08	28	156	1969	WGS	036	0512	-	00	0	X		X1	6	7		0036	
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE											
								08	S05	105	027	006	7	14										
MESSAGE TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₂ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	SiO ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C							
		STD	0000	0127	2322	1862	0090790	0000	14390															
156		OBS	0000	0127	23217	1862			14390															
		STD	0010	0077	3218	2582	0021881	0056	14491															
156		OBS	0010	0077	32182	2582			14491															
		STD	0020	-0048	3283	2640	0016399	0075	14444															
156		OBS	0020	-0048	32825	2640			14444															
		STD	0030	-0098	3300	2656	0014855	0091	14425															
156		OBS	0030	-0098	33003	2656			14425															
		STD	0050	-0065	3325	2675	0013053	0119	14447															
156		OBS	0050	-0065	33252	2675			14447															
		STD	0075	-0044	3343	2688	0011789	0150	14463															
156		OBS	0075	-0044	33427	2688			14463															
		STD	0100	-0024	3355	2697	0010945	0178	14478															
156		OBS	0100	-0024	33548	2697			14478															
		STD	0125	0020	3368	2705	0010180	0205	14504															
156		OBS	0125	0020	33676	2705			14504															
		STD	0150	0041	3378	2712	0009485	0229	14520															
156		OBS	0150	0041	33782	2712			14520															
		STD	0200	0069	3391	2721	0008677	0275	14542															
156		OBS	T0203	0071	33922	2722			14544															
		STD	0250	0104	3405	2730	0007869	0316	14568															
156		OBS	T0250	0104	34047	2730			14568															
		STD	0300	0135	3418	2738	0007114	0354	14592															
156		OBS	T0300	0135	34177	2738			14592															
		STD	0400	0172	3442	2755	0005566	0417	14629															
156		OBS	T0400	0172	34424	2755			14629															
		STD	0500		3445																			
156		OBS	0500		34449																			

TABLE III. Observed and interpolated oceanographic data from stations taken by USCGC WEST-WIND, 21 September to 2 October 1969, prepared from NODC Listing No. 31-8160.

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRAFT INCH	MARS DEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLDUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. HO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
318160		WE	74440N	064050W		259	44	09	21	109	1969	WE2	001		0320		00	0	0		20	6		0001
						WATER		WIND				AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARO- METER (mba)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	S	16	S10	012	000	-006	7	11										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH	S C C						
109		STD	0000	0085	3240	2599	0020264		0000	14496														
		OBS	0000	0085	32400	2599				14496														
		STD	0010	0085	3245	2603	0019881		0020	14498														
		OBS	0010	0085	32450	2603				14498														
		STD	0020	0080	3255	2611	0019091		0040	14499														
		OBS	0020	0080	32550	2611				14499														
		STD	0030	-0080	3318	2669	0013559		0056	14436														
		OBS	0030	-0080	33180	2669				14436														
		STD	0050	-0095	3336	2684	0012119		0082	14434														
		OBS	0050	-0095	33360	2684				14434														
		STD	0075	-0050	3353	2696	0010977		0110	14462														
		OBS	0075	-0050	33530	2696				14462														
		STD	0100	-0005	3375	2712	0009494		0136	14490														
		OBS	0100	-0005	33750	2712				14490														
		STD	0125	0040	3386	2719	0008888		0159	14516														
		OBS	0125	0040	33860	2719				14516														
	STD	0150	0075	3394	2723	0008485		0181	14537															
	OBS	0150	0075	33940	2723				14537															
	STD	0200	0134	3413	2735	0007439		0221	14575															
	OBS	0200	0134	34130	2735				14575															
	STD	0250	0175	3427	2743	0006698		0256	14603															
	OBS	0250	0175	34270	2743				14603															

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DEPT INDEX	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CRUY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	CHK	HGT		PER	SEA		TYPE	AMT		
318160	WE	74540N	064030W	259	44	09	21	124	1969	WE2	002	0230		00	2	0		26	6		0002				
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
					DT	S	32	S08	010	003	-003	7	10												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SIO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH								
124		STD	0000	0068	3250	2608	0019411		0000	14489															
		OBS	0000	0068	32500	2608				14489															
		STD	0010	0066	3255	2612	0019018		0019	14491															
		OBS	0010	0066	32550	2612				14491															
		STD	0020	0035	3295	2646	0015807		0037	14484															
		OBS	0020	0035	32950	2646				14484															
		STD	0030	-0041	3330	2678	0012789		0051	14455															
		OBS	0030	-0041	33300	2678				14455															
		STD	0050	-0056	3350	2694	0011192		0075	14455															
		OBS	0050	-0056	33500	2694				14455															
		STD	0075	-0018	3370	2709	0009820		0101	14479															
		OBS	0075	-0018	33700	2709				14479															
		STD	0100	0028	3377	2712	0009510		0125	14505															
		OBS	0100	0028	33770	2712				14505															
	STD	0125	0053	3389	2720	0008734		0148	14522																
	OBS	0125	0053	33890	2720				14522																
	STD	0150	0091	3399	2726	0008205		0169	14545																
	OBS	0150	0091	33990	2726				14545																
	STD	0200	0120	3406	2730	0007872		0210	14567																
	OBS	0200	0120	34060	2730				14567																

TABLE III.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160	WE		75049N	064040W		259	54	09	21	141	1969	WE2 003	0120		32	1	0		01	3		0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB										
						DT	S	32	S10	000	008	-006	6	07								
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C				
		STD	0000	0080	3240	2599	0020237		0000	14493												
141		OBS	0000	0080	32400	2599				14493												
		STD	0010	0071	3244	2603	0019883		0020	14491												
		OBS	0010	0071	32440	2603				14491												
		STD	0020	0030	3303	2652	0015172		0038	14483												
		OBS	0020	0030	33030	2652				14483												
		STD	0030	-0040	3332	2679	0012640		0051	14456												
		OBS	0030	-0040	33320	2679				14456												
		STD	0050	-0040	3361	2702	0010417		0075	14463												
		OBS	0050	-0040	33610	2702				14463												
		STD	0075	0010	3376	2712	0009497		0099	14493												
		OBS	0075	0010	33760	2712				14493												
		STD	0100	0047	3385	2718	0009005		0123	14515												
		OBS	0100	0047	33850	2718				14515												

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160	WE		75140N	064040W		259	54	09	21	158	1969	WE2 004	0160		00	0	0		00	6	6	0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB										
						DT	S	32	S10	000	008	-006	7	08								
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C				
		STD	0000	0080	3215	2579	0022143		0000	14490												
158		OBS	0000	0080	32150	2579				14490												
		STD	0010	0070	3239	2599	0020259		0021	14490												
		OBS	0010	0070	32390	2599				14490												
		STD	0020	0063	3263	2619	0018390		0041	14492												
		OBS	0020	0063	32630	2619				14492												
		STD	0030	-0084	3322	2673	0013239		0056	14434												
		OBS	0030	-0084	33220	2673				14434												
		STD	0050	-0068	3351	2696	0011069		0081	14449												
		OBS	0050	-0068	33510	2696				14449												
		STD	0075	0002	3373	2710	0009686		0107	14489												
		OBS	0075	0002	33730	2710				14489												
		STD	0100	0028	3380	2715	0009282		0130	14506												
		OBS	0100	0028	33800	2715				14506												
		STD	0125	0055	3391	2722	0008593		0153	14524												
		OBS	0125	0055	33910	2722				14524												

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160	WE		75240N	064070W		259	54	09	21	171	1969	WE2 005	0150		00	0	0		00	6	6	0005
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB										
						DT	S	32	S10	993	008	-006	7	08								
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	Si O ₄ -Si μg - at/l	pH	S C				
		STD	0000	0090	3246	2603	0019834		0000	14499												
171		OBS	0000	0090	32460	2603				14499												
		STD	0010	0083	3247	2605	0019718		0020	14497												
		OBS	0010	0083	32470	2605				14497												
		STD	0020	0050	3295	2645	0015883		0038	14491												
		OBS	0020	0050	32950	2645				14491												
		STD	0030	-0076	3346	2692	0011430		0051	14441												
		OBS	0030	-0076	33460	2692				14441												
		STD	0050	-0086	3354	2699	0010773		0073	14441												
		OBS	0050	-0086	33540	2699				14441												
		STD	0075	-0022	3371	2710	0009725		0099	14477												
		OBS	0075	-0022	33710	2710				14477												
		STD	0100	0025	3384	2718	0008961		0122	14505												
		OBS	0100	0025	33840	2718				14505												
		STD	0125	0055	3390	2721	0008669		0144	14523												
		OBS	0125	0055	33900	2721				14523												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT		
318160		WE	75330N	064040W		259	54	09	21	190	1969	WE2	006	0450		00	0	0		00	6	7	0006		
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
						DT	S	32	S05	986	010	-003	7	13											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	σ_{θ}							
190		STD	0000	0080	3230	2591	0020999		0000	14492															
		OBS	0000	0080	32300	2591				14492															
		STD	0010	0073	3247	2605	0019664		0020	14493															
		OBS	0010	0073	32470	2605				14493															
		STD	0020	0055	3281	2633	0016976		0039	14491															
		OBS	0020	0055	32810	2633				14491															
		STD	0030	-0052	3324	2673	0013204		0054	14449															
		OBS	0030	-0052	33240	2673				14449															
		STD	0050	-0076	3343	2689	0011651		0079	14444															
		OBS	0050	-0076	33430	2689				14444															
		STD	0075	-0067	3358	2701	0010527		0106	14455															
		OBS	0075	-0067	33580	2701				14455															
		STD	0100	-0003	3373	2710	0009657		0132	14490															
		OBS	0100	-0003	33730	2710				14490															
		STD	0125	0041	3382	2715	0009198		0155	14516															
		OBS	0125	0041	33820	2715				14516															
		STD	0150	0064	3392	2722	0008570		0177	14532															
		OBS	0150	0064	33920	2722				14532															
		STD	0200	0103	3407	2732	0007682		0218	14560															
		OBS	0200	0103	34070	2732				14560															
		STD	0250	0152	3424	2742	0006750		0254	14592															
		OBS	0250	0152	34240	2742				14592															
		STD	0300	0175	3434	2748	0006187		0286	14612															
		OBS	0300	0175	34340	2748				14612															
		STD	0400	0184	3444	2756	0005544		0345	14634															
		OBS	0400	0184	34440	2756				14634															
	REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
	CTRY CODE	ID. NO.	10"	1"	MO	DAY	HR./10	CRUISE NO.	STATION NUMBER	DIR.		HGT	PER			SEA	TYPE	AMT							
	318160		WE	75440N	064040W		259	54	09	21	202	1969	WE2	007	0610		00	0	0		70	X	9	0007	
							WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB											
						DT	S	00	S00	991	010	-003	6	15											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	σ_{θ}							
202		STD	0000	0060	3260	2616	0018607		0000	14487															
		OBS	0000	0060	32600	2616				14487															
		STD	0010	0052	3260	2617	0018564		0019	14485															
		OBS	0010	0052	32600	2617				14485															
		STD	0020	0040	3290	2642	0016214		0036	14485															
		OBS	0020	0040	32900	2642				14485															
		STD	0030	-0063	3327	2676	0012932		0051	14445															
		OBS	0030	-0063	33270	2676				14445															
		STD	0050	-0071	3348	2693	0011287		0075	14447															
		OBS	0050	-0071	33480	2693				14447															
		STD	0075	-0025	3365	2705	0010169		0102	14475															
		OBS	0075	-0025	33650	2705				14475															
		STD	0100	0007	3380	2716	0009173		0126	14496															
		OBS	0100	0007	33800	2716				14496															
		STD	0125	0053	3386	2718	0008962		0148	14522															
		OBS	0125	0053	33860	2718				14522															
		STD	0150	0062	3393	2723	0008482		0170	14531															
		OBS	0150	0062	33930	2723				14531															
		STD	0200	0103	3405	2730	0007833		0211	14560															
		OBS	0200	0103	34050	2730				14560															
		STD	0250	0154	3424	2742	0006765		0248	14593															
		OBS	0250	0154	34240	2742				14593															
		STD	0300	0180	3435	2749	0006151		0280	14615															
		OBS	0300	0180	34350	2749				14615															
		STD	0400	0190	3446	2757	0005443		0338	14637															
		OBS	0400	0190	34460	2757				14637															
		STD	0500	0164	3448	2760	0005115		0391	14642															
		OBS	0500	0164	34480	2760				14642															
		STD	0600	0137	3448	2762	0004924		0441	14647															
		OBS	0600	0137	34480	2762				14647															

TABLE III.—Continued

REFERENCE		SHIP		LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.	SHIP CODE					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160		WE		75540N	064040W		259	54	09	21	215	1969	WE2 008		0600		06	0	2		71	7	8	0008
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
						DT	S	06	S16	983	-017		6	15										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?		$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NUMBER						
		STD	0000	-0018	3100	2491	0030498		0000	14429														
215		OBS	0000	-0018	31000	2491				14429														
		STD	0010	0061	3200	2568	0023187		0027	14481														
		OBS	0010	0061	32000	2568				14481														
		STD	0020	0060	3250	2608	0019366		0048	14489														
		OBS	0020	0060	32500	2608				14489														
		STD	0030	-0025	3298	2651	0015301		0065	14458														
		OBS	0030	-0025	32980	2651				14458														
		STD	0050	-0050	3328	2676	0012898		0094	14454														
		OBS	0050	-0050	33280	2676				14454														
		STD	0075	-0052	3337	2684	0012192		0125	14459														
		OBS	0075	-0052	33370	2684				14459														
		STD	0100	-0018	3361	2702	0010500		0153	14482														
		OBS	0100	-0018	33610	2702				14482														
		STD	0125	0028	3374	2710	0009736		0179	14509														
		OBS	0125	0028	33740	2710				14509														
		STD	0150	0043	3380	2714	0009360		0203	14521														
		OBS	0150	0043	33800	2714				14521														
		STD	0200	0077	3395	2724	0008423		0247	14546														
		OBS	0200	0077	33950	2724				14546														
		STD	0250	0114	3413	2736	0007310		0286	14574														
		OBS	0250	0114	34130	2736				14574														
		STD	0300	0165	3428	2744	0006562		0321	14607														
		OBS	0300	0165	34280	2744				14607														
		STD	0400	0171	3441	2754	0005664		0382	14628														
		OBS	0400	0171	34410	2754				14628														
		STD	0500	0169	3448	2760	0005156		0436	14645														
		OBS	0500	0169	34480	2760				14645														
		STD	0600	0150	3448	2761	0005032		0487	14653														
		OBS	0600	0150	34480	2761				14653														

REFERENCE	SHIP	LATITUDE	LONGITUDE	DEPTH	MARSSEN	STATION TIME	YEAR	ORIGINATOR'S	DEPTH	MAX.	WAVE	WEA-	CLOUD	NODC										
CTRY	NO.	°	°	IN METERS	SQUARE	(GMT)			TO	DEPTH	OBSERVATIONS	THER	CODES	STATION										
CODE									BOTTOM	OF		CODE		NUMBER										
										S'MPL'S														
318160	WE	75530N	065150W		259 55	09 21 238	1969	WE2 009	0650		06 0 2		00 7 8	0009										
					WATER		WIND		BARO-		AIR TEMP. °C		VIS.	NO.	SPECIAL									
					COLOR	TRANS.	DIR.	SPEED	METER	DRY	WET	CODE										OBS.		
					CODE	(m)		OR	FORCE	(mb)	BULB	BULB		DEPTHS										
					DT	S	06	S15	981	-021	-034	6	15											
MESSNGR	CST	CARD	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME	$\Sigma \Delta D$	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₂ -N	NO ₃ -N	SiO ₄ -Si	pH	STATION							
TIME	NO.	TYPE					ANOMALY-210?	OYN. M.	VELOCITY		$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$	$\mu\text{g} - \text{at/l}$		NUMBER							
HR 1/10								$\times 10^3$																
		STD	0000	-0010	3030	2435	0035893	0000	14423															
238		OBS	0000	-0010	30300	2435			14423															
		STD	0010	-0010	3060	2459	0033586	0035	14429															
		OBS	0010	-0010	30600	2459			14429															
		STD	0020	0055	3220	2584	0021628	0062	14483															
		OBS	0020	0055	32200	2584			14483															
		STD	0030	-0040	3275	2633	0016999	0082	14448															
		OBS	0030	-0040	32750	2633			14448															
		STD	0050	-0072	3314	2666	0013884	0113	14442															
		OBS	0050	-0072	33140	2666			14442															
		STD	0075	-0061	3329	2678	0012767	0146	14453															
		OBS	0075	-0061	33290	2678			14453															
		STD	0100	-0039	3347	2691	0011473	0176	14470															
		OBS	0100	-0039	33470	2691			14470															
		STD	0125	-0003	3363	2702	0010413	0204	14493															
		OBS	0125	-0003	33630	2702			14493															
		STD	0150	0014	3371	2708	0009886	0229	14506															
		OBS	0150	0014	33710	2708			14506															
		STD	0200	0060	3391	2722	0008622	0275	14538															
		OBS	0200	0060	33910	2722			14538															
		STD	0250	0120	3406	2730	0007881	0316	14576															
		OBS	0250	0120	34060	2730			14576															
		STD	0300	0149	3424	2742	0006742	0353	14599															
		OBS	0300	0149	34240	2742			14599															
		STD	0400	0180	3443	2755	0005586	0415	14632															
		OBS	0400	0180	34430	2755			14632															
		STD	0500	0173	3449	2761	0005115	0468	14647															
		OBS	0500	0173	34490	2761			14647															
		STD	0600	0139	3449	2763	0004866	0518	14648															

TABLE III.—Continued

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRAFT METERS	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbal)	DRY BULB		WET BULB	VIS. CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
318160	WE		75420N	065200W		259	55	09	22	021	1969	WE2	010		0570		06	0	2		00	7	8	0010
						WATER		WIND		AIR TEMP. °C														
						COLOR	TRANS.	DIR.	SPEED	BARO-	DRY	WET	VIS.	NO.	SPECIAL									
						CODE	(m)		OR	METER	BULB	BULB	CODE	OBS.	OBSERVATIONS									
						DT	S	06	S10	972	-006	-011	6	14										
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CC							
	021	STD	0000	0053	3265	2621	0018190	0000	14485															
		OBS	0000	0053	32650	2621			14485															
		STD	0010	0048	3266	2622	0018087	0018	14484															
		OBS	0010	0048	32660	2622			14484															
		STD	0020	0030	3292	2644	0016012	0035	14481															
		OBS	0020	0030	32920	2644			14481															
		STD	0030	-0063	3327	2676	0012932	0050	14445															
		OBS	0030	-0063	33270	2676			14445															
		STD	0050	-0076	3343	2689	0011651	0074	14444															
		OBS	0050	-0076	33430	2689			14444															
		STD	0075	-0036	3365	2706	0010120	0101	14470															
		OBS	0075	-0036	33650	2706			14470															
		STD	0100	0003	3375	2712	0009534	0126	14494															
		OBS	0100	0003	33750	2712			14494															
		STD	0125	0035	3385	2718	0008937	0149	14514															
		OBS	0125	0035	33850	2718			14514															
		STD	0150	0057	3389	2720	0008757	0171	14528															
		OBS	0150	0057	33890	2720			14528															
		STD	0200	0100	3405	2730	0007813	0213	14558															
		OBS	0200	0100	34050	2730			14558															
		STD	0250	0154	3424	2742	0006765	0249	14593															
		OBS	0250	0154	34240	2742			14593															
		STD	0300	0189	3436	2749	0006147	0281	14619															
		OBS	0300	0189	34360	2749			14619															
		STD	0400	0189	3443	2755	0005660	0340	14636															
		OBS	0400	0189	34430	2755			14636															
		STD	0500	0155	3447	2760	0005116	0394	14638															
		OBS	0500	0155	34470	2760			14638															

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	NODC STATION NUMBER	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160	WE	75320N	065240W	259	55	09	22	038	1969	WE2	011	0140		06	0	2		00	7	8		0011
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	meter	DRY BULB	WET BULB											
					DT	S	06	S10	968	-006	-011	6	08									
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH					
	038	STD	0000	0080	3260	2615	0018713		0000	14496												
		OBS	0000	0080	32600	2615				14496												
		STD	0010	0068	3260	2616	0018647		0019	14492												
		OBS	0010	0068	32600	2616				14492												
		STD	0020	-0040	3325	2673	0013179		0035	14454												
		OBS	0020	-0040	33250	2673				14454												
		STD	0030	-0057	3333	2681	0012496		0047	14448												
		OBS	0030	-0057	33330	2681				14448												
		STD	0050	-0069	3357	2700	0010606		0071	14449												
		OBS	0050	-0069	33570	2700				14449												
		STD	0075	-0035	3381	2718	0008903		0095	14473												
		OBS	0075	-0035	33810	2718				14473												
		STD	0100	0030	3386	2719	0008836		0117	14507												
		OBS	0100	0030	33860	2719				14507												
		STD	0125	0045	3389	2721	0008688		0139	14519												
		OBS	0125	0045	33890	2721				14519												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT				
318160		WE	75220N	065290W	259	55	09	22	054	1969	WE2	012	0200							85	7	9	0012			
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET RULR															
						DT	S	04	S11	961	-004	-011	6	10												
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C									
		STD	0000	0050	3250	2609	0019320	0000	14481																	
054		OBS	0000	0050	32500	2609			14481																	
		STD	0010	0040	3253	2612	0019039	0019	14479																	
		OBS	0010	0040	32530	2612			14479																	
		STD	0020	-0060	3310	2662	0014249	0036	14442																	
		OBS	0020	-0060	33100	2662			14442																	
		STD	0030	-0115	3334	2683	0012219	0049	14421																	
		OBS	0030	-0115	33340	2683			14421																	
		STD	0050	-0081	3352	2697	0010944	0072	14443																	
		OBS	0050	-0081	33520	2697			14443																	
		STD	0075	-0019	3370	2709	0009815	0098	14479																	
		OBS	0075	-0019	33700	2709			14479																	
		STD	0100	0015	3377	2713	0009442	0122	14499																	
		OBS	0100	0015	33770	2713			14499																	
		STD	0125	0055	3390	2721	0008669	0145	14523																	
		OBS	0125	0055	33900	2721			14523																	
		STD	0150	0072	3394	2723	0008466	0166	14536																	
		OBS	0150	0072	33940	2723			14536																	
		STD	0200	0099	3400	2726	0008185	0208	14557																	
		OBS	0200	0099	34000	2726			14557																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT				
318160		WE	75110N	065340W	259	55	09	22	069	1969	WE2	013	0250							85	7	9	0013			
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET RULR															
						DT	S	04	S11	961	-004	-011	6	11												
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C									
		STD	0000	0060	3220	2584	0021659	0000	14482																	
069		OBS	0000	0060	32200	2584			14482																	
		STD	0010	0052	3238	2599	0020243	0021	14482																	
		OBS	0010	0052	32380	2599			14482																	
		STD	0020	-0100	3315	2668	0013728	0038	14424																	
		OBS	0020	-0100	33150	2668			14424																	
		STD	0030	-0121	3331	2681	0012431	0051	14418																	
		OBS	0030	-0121	33310	2681			14418																	
		STD	0050	-0096	3347	2693	0011273	0075	14436																	
		OBS	0050	-0096	33470	2693			14436																	
		STD	0075	-0028	3367	2707	0010003	0101	14474																	
		OBS	0075	-0028	33670	2707			14474																	
		STD	0100	0007	3382	2717	0009021	0125	14496																	
		OBS	0100	0007	33820	2717			14496																	
		STD	0125	0057	3391	2722	0008605	0147	14524																	
		OBS	0125	0057	33910	2722			14524																	
		STD	0150	0075	3397	2726	0008257	0168	14538																	
		OBS	0150	0075	33970	2726			14538																	
		STD	0200	0119	3408	2732	0007713	0208	14567																	
		OBS	0200	0119	34080	2732			14567																	
		STD	0250	0160	3421	2739	0007036	0245	14595																	
		OBS	0250	0160	34210	2739			14595																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT			
318160	WE	75110N	065340W	259	55	09	22	069	1969	WE2	013	0250							85	7	9	0013				
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR	WET RULR															
						DT	S	04	S11	961	-004	-011	6	11												
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta D$ DYN. AL. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C									
069		STD	0000	0060	3220	2584	0021659	0000	14482																	
		OBS	0000	0060	32200	2584			14482																	
		STD	0010	0052	3238	2599	0020243	0021	14482																	
		OBS	0010	0052	32380	2599			14482																	
		STD	0020	-0100	3315	2668	0013728	0038	14424																	
		OBS	0020	-0100	33150	2668			14424																	
		STD	0030	-0121	3331	2681	0012431	0051	14418																	
		OBS	0030	-0121	33310	2681			14418																	
		STD	0050	-0096	3347	2693	0011273	0075	14436																	
		OBS	0050	-0096	33470	2693			14436																	
		STD	0075	-0028	3367	2707	0010003	0101	14474																	
		OBS	0075	-0028	33670	2707			14474																	
		STD	0100	0007	3382	2717	0009021	0125	14496																	
		OBS	0100	0007	33820	2717			14496																	
		STD	0125	0057	3391	2722	0008605	0147	14524																	
	OBS	0125	0057	33910	2722			14524																		
	STD	0150	0075	3397	2726	0008257	0168	14538																		
	OBS	0150	0075	33970	2726			14538																		
	STD	0200	0119	3408	2732	0007713	0208	14567																		
	OBS	0200	0119	34080	2732			14567																		
	STD	0250	0160	3421	2739	0007036	0245	14595																		
	OBS	0250	0160	34210	2739			14595																		

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DFT INCH	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE	
318160	WE	75020N	065350W	259	55	09	22	084	1969	WE2	014	0310					85	8	7		0014
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
				DT	S	05	512	961	003	-002	12										
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	NO ₃ -N $\mu\text{g} - \text{ol/l}$	Si O ₄ -Si $\mu\text{g} - \text{ol/l}$	pH	S C		
084		STD	0000	0053	3226	2589		0021166		0000	14479										
		OBS	0000	0053	32260	2589					14479										
		STD	0010	0053	3240	2601		0020095		0021	14483										
		OBS	0010	0053	32400	2601					14483										
		STD	0020	-0100	3321	2672		0013268		0037	14425										
		OBS	0020	-0100	33210	2672					14425										
		STD	0030	-0120	3332	2682		0012357		0050	14419										
		OBS	0030	-0120	33320	2682					14419										
		STD	0050	-0102	3346	2693		0011330		0074	14433										
		OBS	0050	-0102	33460	2693					14433										
		STD	0075	-0071	3364	2706		0010053		0101	14454										
		OBS	0075	-0071	33640	2706					14454										
		STD	0100	0005	3379	2715		0009239		0125	14495										
		OBS	0100	0005	33790	2715					14495										
		STD	0125	0042	3390	2722		0008596		0147	14518										
		OBS	0125	0042	33900	2722					14518										
		STD	0150	0084	3398	2726		0008237		0168	14542										
		OBS	0150	0084	33980	2726					14542										
		STD	0200	0149	3418	2738		0007168		0206	14582										
		OBS	0200	0149	34180	2738					14582										
		STD	0250	0187	3430	2744		0006565		0241	14609										
		OBS	0250	0187	34300	2744					14609										
		STD	0300	0203	3440	2751		0005960		0272	14625										
		OBS	0300	0203	34400	2751					14625										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"		MO	DAY			HR./10	CRUISE NO.	STATION NUMBER	DIR		HGT	PER	
318160		WE	74515N	065410W	259	45	09 22	100	1969	WE2 015	0410						85	7	7	0015
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB							
						DT	S	05	512	961	003	-002	13							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C			
100		STD	0000	0045	3215	2581	0021967	0000	14474											
		OBS	0000	0045	32150	2581			14474											
		STD	0010	0044	3217	2583	0021806	0022	14475											
		OBS	0010	0044	32170	2583			14475											
		STD	0020	-0070	3310	2663	0014212	0040	14437											
		OBS	0020	-0070	33100	2663			14437											
		STD	0030	-0118	3335	2684	0012133	0053	14420											
		OBS	0030	-0118	33350	2684			14420											
		STD	0050	-0127	3350	2697	0010944	0076	14421											
		OBS	0050	-0127	33500	2697			14421											
		STD	0075	-0115	3358	2703	0010355	0103	14432											
		OBS	0075	-0115	33580	2703			14432											
		STD	0100	-0010	3375	2712	0009470	0128	14488											
		OBS	0100	-0010	33750	2712			14488											
		STD	0125	0052	3387	2719	0008880	0150	14522											
		OBS	0125	0052	33870	2719			14522											
		STD	0150	0086	3400	2727	0008097	0172	14543											
		OBS	0150	0086	34000	2727			14543											
		STD	0200	0140	3415	2736	0007330	0210	14577											
		OBS	0200	0140	34150	2736			14577											
		STD	0250	0185	3430	2744	0006549	0245	14608											
		OBS	0250	0185	34300	2744			14608											
		STD	0300	0204	3441	2752	0005893	0276	14626											
		OBS	0300	0204	34410	2752			14626											
		STD	0400	0203	3449	2758	0005326	0332	14643											
		OBS	0400	0203	34490	2758			14643											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	NGT	PER		SEA	TYPE	
318160		WE	74415N	065490W		259	45	09	22	115	1969	WE2	016	0970					03	8	7	0016
						WATER		WIND		BARO- METER OR FORCE (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
						DT	S	10	507	960	-006	-011	18									
MESSENGER TIME NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC					
115		STD	0000	0084	3200	2567	0023308	0000	14490													
		OBS	0000	0084	32000	2567			14490													
		STD	0010	0078	3200	2567	0023274	0023	14489													
		OBS	0010	0078	32000	2567			14489													
		STD	0020	-0098	3325	2676	0012968	0041	14427													
		OBS	0020	-0098	33250	2676			14427													
		STD	0030	-0117	3333	2683	0012289	0054	14420													
		OBS	0030	-0117	33330	2683			14420													
		STD	0050	-0139	3343	2691	0011446	0078	14415													
		OBS	0050	-0139	33430	2691			14415													
		STD	0075	-0143	3352	2699	0010729	0105	14418													
		OBS	0075	-0143	33520	2699			14418													
		STD	0100	-0100	3365	2708	0009857	0131	14444													
		OBS	0100	-0100	33650	2708			14444													
		STD	0125	-0017	3370	2709	0009812	0156	14488													
		OBS	0125	-0017	33700	2709			14488													
		STD	0150	0022	3388	2721	0008636	0179	14512													
		OBS	0150	0022	33880	2721			14512													
		STD	0200	0104	3406	2731	0007764	0220	14560													
		OBS	0200	0104	34060	2731			14560													
		STD	0250	0160	3428	2745	0006508	0256	14596													
		OBS	0250	0160	34280	2745			14596													
		STD	0300	0193	3445	2756	0005502	0286	14622													
		OBS	0300	0193	34450	2756			14622													
		STD	0400	0242	3455	2760	0005215	0339	14661													
		OBS	0400	0242	34550	2760			14661													
		STD	0500	0235	3455	2760	0005206	0391	14675													
		OBS	0500	0235	34550	2760			14675													
		STD	0600	0208	3453	2761	0005160	0443	14679													
		OBS	0600	0208	34530	2761			14679													
		STD	0700	0169	3451	2762	0005003	0494	14678													
		OBS	0700	0169	34510	2762			14678													
		STD	0800	0112	3449	2765	0004691	0542	14670													
		OBS	0800	0112	34490	2765			14670													
		STD	0900	0070	3448	2767	0004436	0588	14667													
		OBS	0900	0070	34480	2767			14667													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	74420N	067200W		259	47	09	22	159	1969	WE2	017		1010		32	1	2		00	6	8	0017
						WATER		WIND		BARO- METER		AIR TEMP., °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB											
						OT	S	32	S10	968	-006	-011	7	19										
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC							
159		STD	0000	0140	3224	2583	0021798	0000	14518															
		OBS	0000	0140	32240	2583			14518															
		STD	0010	0133	3244	2599	0020234	0021	14519															
		OBS	0010	0133	32440	2599			14519															
		STD	0020	-0063	3310	2662	0014238	0038	14441															
		OBS	0020	-0063	33100	2662			14441															
		STD	0030	-0130	3335	2685	0012098	0051	14415															
		OBS	0030	-0130	33350	2685			14415															
		STD	0050	-0150	3350	2697	0010879	0074	14411															
		OBS	0050	-0150	33500	2697			14411															
		STD	0075	-0164	3363	2708	0009828	0100	14410															
		OBS	0075	-0164	33630	2708			14410															
		STD	0100	-0152	3368	2712	0009461	0124	14420															
		OBS	0100	-0152	33680	2712			14420															
		STD	0125	-0139	3375	2717	0008949	0147	14432															
		OBS	0125	-0139	33750	2717			14432															
		STD	0150	-0060	3390	2727	0008085	0169	14475															
		OBS	0150	-0060	33900	2727			14475															
		STD	0200	0046	3410	2738	0007097	0207	14535															
		OBS	0200	0046	34100	2738			14535															
		STD	0250	0108	3424	2745	0006436	0240	14573															
		OBS	0250	0108	34240	2745			14573															
		STD	0300	0137	3433	2750	0005973	0272	14595															
		OBS	0300	0137	34330	2750			14595															
		STD	0400	0185	3450	2760	0005101	0327	14635															
		OBS	0400	0185	34500	2760			14635															
		STD	0500	0181	3453	2763	0004882	0377	14651															
		OBS	0500	0181	34530	2763			14651															
	STD	0600	0154	3452	2764	0004765	0425	14655																
	OBS	0600	0154	34520	2764			14655																
	STD	0700	0121	3450	2765	0004669	0472	14657																
	OBS	0700	0121	34500	2765			14657																
	STD	0800	0080	3449	2767	0004430	0518	14655																
	OBS	0800	0080	34490	2767			14655																
	STD	0900	0055	3447	2767	0004390	0562	14660																
	OBS	0900	0055	34470	2767			14660																
	STD	1000	0040	3447	2768	0004275	0605	14670																
	OBS	1000	0040	34470	2768			14670																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY ROCK	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		74520N	067150W		259	47	09	22	175	1969	WE2	018			1000		00	0	0		73	6	7	0018
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	S	00	500	975	-006	-011	7	19											
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₂ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	Si O ₄ -Si $\mu g - at/l$	pH	S	C					
175		STD	0000	0080	3202	2569	0023135		0000		14488														
		OBS	0000	0080	32020	2569					14488														
		STD	0010	0080	3205	2571	0022904		0023		14490														
		OBS	0010	0080	32050	2571					14490														
		STD	0020	-0120	3315	2668	0013667		0041		14415														
		OBS	0020	-0120	33150	2668					14415														
		STD	0030	-0157	3333	2684	0012180		0054		14402														
		OBS	0030	-0157	33330	2684					14402														
		STD	0050	-0155	3350	2698	0010866		0077		14408														
		OBS	0050	-0155	33500	2698					14408														
		STD	0075	-0163	3355	2702	0010445		0104		14409														
		OBS	0075	-0163	33550	2702					14409														
		STD	0100	-0152	3363	2708	0009845		0129		14420														
		OBS	0100	-0152	33630	2708					14420														
		STD	0125	-0145	3370	2713	0009313		0153		14428														
		OBS	0125	-0145	33700	2713					14428														
		STD	0150	-0087	3384	2723	0008431		0175		14461														
		OBS	0150	-0087	33840	2723					14461														
		STD	0200	0028	3403	2733	0007524		0215		14525														
		OBS	0200	0028	34030	2733					14525														
	STD	0250	0092	3421	2744	0006555		0250		14565															
	OBS	0250	0092	34210	2744					14565															
	STD	0300	0134	3435	2752	0005800		0281		14594															
	OBS	0300	0134	34350	2752					14594															
	STD	0400	0210	3450	2759	0005311		0337		14646															
	OBS	0400	0210	34500	2759					14646															
	STD	0500	0214	3455	2762	0005017		0389		14665															
	OBS	0500	0214	34550	2762					14665															
	STD	0600	0176	3455	2765	0004727		0437		14665															
	OBS	0600	0176	34550	2765					14665															
	STD	0700	0137	3453	2766	0004577		0484		14664															
	OBS	0700	0137	34530	2766					14664															
	STD	0800	0088	3450	2767	0004419		0529		14659															
	OBS	0800	0088	34500	2767					14659															
	STD	0900	0047	3448	2768	0004252		0572		14657															
	OBS	0900	0047	34480	2768					14657															
	STD	1000	0029	3448	2769	0004113		0614		14666															
	OBS	1000	0029	34480	2769					14666															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARSOEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE		75020N	067060W	259	57	09	22	192	1969	WE2	019		0510		32	1	2		00	6	7	0019
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE										
						DT	S	00	S00	977	-006	-011	7	14									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C						
192		STD	0000	0065	3200	2568	0023210	0000	14481														
		OBS	0000	0065	32000	2568			14481														
		STD	0010	0050	3290	2641	0016266	0020	14488														
		OBS	0010	0050	32900	2641			14488														
		STD	0020	-0130	3323	2675	0013025	0034	14411														
		OBS	0020	-0130	33230	2675			14411														
		STD	0030	-0153	3336	2686	0011959	0047	14404														
		OBS	0030	-0153	33360	2686			14404														
		STD	0050	-0168	3346	2695	0011141	0070	14401														
		OBS	0050	-0168	33460	2695			14401														
		STD	0075	-0170	3354	2701	0010504	0097	14406														
		OBS	0075	-0170	33540	2701			14406														
		STD	0100	-0160	3365	2710	0009669	0122	14416														
		OBS	0100	-0160	33650	2710			14416														
		STD	0125	-0152	3371	2714	0009216	0146	14425														
		OBS	0125	-0152	33710	2714			14425														
		STD	0150	-0023	3395	2729	0007873	0167	14493														
	OBS	0150	-0023	33950	2729			14493															
	STD	0200	0123	3414	2736	0007287	0205	14570															
	OBS	0200	0123	34140	2736			14570															
	STD	0250	0174	3432	2747	0006313	0239	14603															
	OBS	0250	0174	34320	2747			14603															
	STD	0300	0208	3444	2754	0005700	0269	14628															
	OBS	0300	0208	34440	2754			14628															
	STD	0400	0230	3450	2757	0005484	0325	14655															
	OBS	0400	0230	34500	2757			14655															
	STD	0500	0195	3452	2761	0005076	0378	14657															
	OBS	0500	0195	34520	2761			14657															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRAFT INCHES	MARSOEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE		75110N	067050W	259	57	09	22	212	1969	WE2	020		0440		00	0	0		01	6	6	0020
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE										
						DT	S	00	S00	975	-022	-036	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C						
212		STD	0000	0020	3220	2586	0021469	0000	14463														
		OBS	0000	0020	32200	2586			14463														
		STD	0010	0010	3235	2599	0020274	0021	14462														
		OBS	0010	0010	32350	2599			14462														
		STD	0020	-0083	3312	2665	0014014	0038	14432														
		OBS	0020	-0083	33120	2665			14432														
		STD	0030	-0114	3336	2685	0012069	0051	14422														
		OBS	0030	-0114	33360	2685			14422														
		STD	0050	-0130	3343	2691	0011472	0075	14419														
		OBS	0050	-0130	33430	2691			14419														
		STD	0075	-0130	3357	2703	0010384	0102	14425														
		OBS	0075	-0130	33570	2703			14425														
		STD	0100	-0098	3365	2708	0009864	0127	14445														
		OBS	0100	-0098	33650	2708			14445														
		STD	0125	-0008	3377	2714	0009322	0151	14493														
		OBS	0125	-0008	33770	2714			14493														
		STD	0150	0010	3382	2717	0009028	0174	14506														
	OBS	0150	0010	33820	2717			14506															
	STD	0200	0127	3410	2733	0007617	0216	14571															
	OBS	0200	0127	34100	2733			14571															
	STD	0250	0160	3426	2743	0006659	0251	14596															
	OBS	0250	0160	34260	2743			14596															
	STD	0300	0192	3435	2748	0006247	0284	14620															
	OBS	0300	0192	34350	2748			14620															
	STD	0400	0193	3448	2758	0005318	0342	14639															
	OBS	0400	0193	34480	2758			14639															

TABLE III.—Continued

REFERENCE CTRY CODE	ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT HOURS	MARS DEN SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
						10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA	
318160		WE	75220N	067020W		259	57 09 23 005	1969	WE2 021		0390		03	0	2		01	3	3		0021
						WATER		WIND		AIR TEMP. °C		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE								
						DT	S	03	S05	977	-022	-039	7	12							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-3107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiD ₄ -Si μg - at/l	pH	DOC			
		STD	0000	0010	3238	2601	0020048		0000	14461											
	005	OBS	0000	0010	32380	2601				14461											
		STD	0010	0008	3242	2604	0019730		0020	14462											
		OBS	0010	0008	32420	2604				14462											
		STD	0020	-0102	3317	2669	0013568		0037	14424											
		OBS	0020	-0102	33170	2669				14424											
		STD	0030	-0121	3337	2686	0011971		0049	14419											
		OBS	0030	-0121	33370	2686				14419											
		STD	0050	-0114	3345	2692	0011367		0073	14427											
		OBS	0050	-0114	33450	2692				14427											
		STD	0075	-0126	3355	2701	0010550		0100	14427											
		OBS	0075	-0126	33550	2701				14427											
		STD	0100	-0066	3375	2715	0009222		0125	14462											
		OBS	0100	-0066	33750	2715				14462											
		STD	0125	0004	3384	2719	0008849		0147	14499											
		OBS	0125	0004	33840	2719				14499											
		STD	0150	0057	3396	2726	0008225		0169	14529											
		OBS	0150	0057	33960	2726				14529											
		STD	0200	0128	3411	2733	0007548		0208	14572											
		OBS	0200	0128	34110	2733				14572											
		STD	0250	0171	3425	2742	0006818		0244	14601											
		OBS	0250	0171	34250	2742				14601											
		STD	0300	0192	3435	2748	0006247		0277	14620											
		OBS	0300	0192	34350	2748				14620											

REFERENCE CTRY CODE	ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT HOURS	MARS DEN SQUARE		STATION TIME IGMTI		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER
CRUISE NO.	STATION NUMBER	DIR.	HGT	PER	SEA	TYPE	AMT														
318160		WE	75312N	065510W		259	55 09 23 021	1969	WE2 022		0350		03	0	2		01	X	2		0022
						WATER		WIND		AIR TEMP. °C		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE								
						DT	S	03	S10	988	-022	-039	7	12							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-3107		Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PD ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiD ₄ -Si μg - at/l	pH	DOC			
		STD	0000	0025	3240	2602	0019963		0000	14468											
	021	OBS	0000	0025	32400	2602				14468											
		STD	0010	0020	3255	2614	0018791		0019	14470											
		OBS	0010	0020	32550	2614				14470											
		STD	0020	-0070	3302	2656	0014825		0036	14436											
		OBS	0020	-0070	33020	2656				14436											
		STD	0030	-0118	3334	2684	0012210		0050	14420											
		OBS	0030	-0118	33340	2684				14420											
		STD	0050	-0115	3346	2693	0011288		0073	14426											
		OBS	0050	-0115	33460	2693				14426											
		STD	0075	-0100	3359	2703	0010329		0100	14439											
		OBS	0075	-0100	33590	2703				14439											
		STD	0100	-0050	3375	2714	0009289		0125	14469											
		OBS	0100	-0050	33750	2714				14469											
		STD	0125	0027	3384	2718	0008969		0148	14510											
		OBS	0125	0027	33840	2718				14510											
		STD	0150	0062	3398	2727	0008103		0169	14532											
		OBS	0150	0062	33980	2727				14532											
		STD	0200	0138	3413	2734	0007467		0208	14576											
		OBS	0200	0138	34130	2734				14576											
		STD	0250	0181	3431	2746	0006442		0243	14606											
		OBS	0250	0181	34310	2746				14606											
		STD	0300	0210	3442	2752	0005867		0273	14629											
		OBS	0300	0210	34420	2752				14629											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE		AMT				
318160		WE	75390N	066460W		259	56	09	23 036	1969	WE2	023	0500		04	0	2		00	3	3	0023				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)		DRY RULE	WET RULE													
						DT	S	04	S08	984	-019	-031	7	14												
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH									
036		STD	0000	0052	3254	2612	0019024		0000	14483																
		OBS	0000	0052	32540	2612				14483																
		STD	0010	0048	3257	2615	0018773		0019	14483																
		OBS	0010	0048	32570	2615				14483																
		STD	0020	-0028	3278	2635	0016821		0037	14453																
		OBS	0020	-0028	32780	2635				14453																
		STD	0030	-0049	3316	2667	0013827		0052	14450																
		OBS	0030	-0049	33160	2667				14450																
		STD	0050	-0049	3344	2689	0011678		0078	14457																
		OBS	0050	-0049	33440	2689				14457																
		STD	0075	-0021	3356	2698	0010874		0106	14476																
		OBS	0075	-0021	33560	2698				14476																
		STD	0100	-0060	3367	2708	0009858		0132	14463																
		OBS	0100	-0060	33670	2708				14463																
		STD	0125	-0014	3375	2713	0009445		0156	14490																
		OBS	0125	-0014	33750	2713				14490																
		STD	0150	0022	3385	2719	0008864		0179	14512																
		OBS	0150	0022	33850	2719				14512																
	STD	0200	0107	3405	2730	0007860		0220	14561																	
	OBS	0200	0107	34050	2730				14561																	
	STD	0250	0153	3422	2740	0006909		0257	14592																	
	OBS	0250	0153	34220	2740				14592																	
	STD	0300	0179	3433	2747	0006294		0290	14614																	
	OBS	0300	0179	34330	2747				14614																	
	STD	0400	0180	3445	2757	0005436		0349	14632																	
	OBS	0400	0180	34450	2757				14632																	
	STD	0500	0150	3447	2761	0005076		0402	14636																	
	OBS	0500	0150	34470	2761				14636																	

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT PRODUCED	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318160	WE		75495N	066452W		259	56	09	23 055	1969	WE2	024	0190					00		0	0024	
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						DT	S	09	S01	984	-019	-031	09									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH				
	055	STD	0000	-0035	3020	2427	0036576		0000		14410											
		OBS	0000	-0035	30200	2427					14410											
		STD	0010	-0015	3100	2491	0030502		0034		14432											
		OBS	0010	-0015	31000	2491					14432											
		STD	0020	0057	3202	2570	0023012		0060		14481											
		OBS	0020	0057	32020	2570					14481											
		STD	0030	0050	3247	2606	0019541		0082		14486											
		OBS	0030	0050	32470	2606					14486											
		STD	0050	-0055	3311	2663	0014178		0115		14450											
		OBS	0050	-0055	33110	2663					14450											
		STD	0075	-0059	3331	2679	0012622		0149		14455											
		OBS	0075	-0059	33310	2679					14455											
		STD	0100	-0046	3347	2691	0011443		0179		14467											
		OBS	0100	-0046	33470	2691					14467											
		STD	0125	-0027	3357	2699	0010756		0207		14481											
		OBS	0125	-0027	33570	2699					14481											
		STD	0150	-0010	3366	2705	0010145		0233		14495											
		OBS	0150	-0010	33660	2705					14495											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		75484N	067240W	259	57	09	23	098	1969	WE2	025	0060						02	00		0025	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
						DT	S	04	S03	990	-039		05										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCIT	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CODE					
		STD	0000	-0020	3000	2411	0038160		0000	14414													
	098	OBS	0000	-0020	30000	2411				14414													
		STD	0010	0010	3075	2470	0032513		0035	14440													
		OBS	0010	0010	30750	2470				14440													
		STD	0020	0057	3195	2564	0023546		0063	14480													
		OBS	0020	0057	31950	2564				14480													
		STD	0030	0000	3257	2617	0018541		0084	14464													
		OBS	0030	0000	32570	2617				14464													
		STD	0050	-0055	3290	2646	0015784		0119	14447													
		OBS	0050	-0055	32900	2646				14447													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE		75453N	067440W	259	57	09	23	105	1969	WE2	026	0210						02	00		0026	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
						DT	S	04	S03	996	000	-011	10										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CODE					
		STD	0000	0030	3165	2542	0025717		0000	14460													
	105	OBS	0000	0030	31650	2542				14460													
		STD	0010	0046	3220	2585	0021587		0024	14477													
		OBS	0010	0046	32200	2585				14477													
		STD	0020	0046	3255	2613	0018913		0044	14483													
		OBS	0020	0046	32550	2613				14483													
		STD	0030	0015	3283	2637	0016624		0062	14475													
		OBS	0030	0015	32830	2637				14475													
		STD	0050	-0037	3324	2673	0013256		0092	14460													
		OBS	0050	-0037	33240	2673				14460													
		STD	0075	-0040	3345	2690	0011630		0123	14465													
		OBS	0075	-0040	33450	2690				14465													
		STD	0100	-0010	3366	2705	0010156		0150	14486													
		OBS	0100	-0010	33660	2705				14486													
		STD	0125	0027	3377	2712	0009502		0174	14509													
		OBS	0125	0027	33770	2712				14509													
		STD	0150	0049	3386	2718	0008938		0198	14524													
		OBS	0150	0049	33860	2718				14524													
		STD	0200	0068	3392	2722	0008595		0241	14542													
		OBS	0200	0068	33920	2722				14542													

TABLE III.—Continued

REFERENCE		SHIP		LATITUDE		LONGITUDE		DUFF BUOY	MARSOEN SQUARE		STATION TIME (GMT)				YEAR		ORIGINATOR'S		DEPTH TO BOTTOM		WAVE OBSERVATIONS				WEA- THER CODE		CLOUD CODES		NODC STATION NUMBER	
CDTY CODE	IO. NO.	SHIP CODE		D°	'	D°	'		10"	1"	MO	DAY	N	L	10	YEAR	CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA			TYPE	AMT		
318160	WE	75270N	068120W	259	58	09	23	135	1969	WE2	028					0310								02	2	7			0028	
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIE. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS														
				COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)		DRY BULB	WET BULB																			
				DT	S	00	S00	995	-003	-019	12																			
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTN (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - at/l	TOTAL-P µg - at/l	NO ₂ -N µg - at/l	NO ₃ -N µg - at/l	SiO ₄ -Si µg - at/l	pH														
		STD	0000	0000	3268	2626	0017712	0000	14461																					
135		OBS	0000	0000	32680	2626			14461																					
		STD	0010	0010	3275	2631	0017218	0017	14468																					
		OBS	0010	0010	32750	2631			14468																					
		STD	0020	-0056	3318	2668	0013652	0033	14445																					
		OBS	0020	-0056	33180	2668			14445																					
		STD	0030	-0090	3336	2684	0012146	0046	14433																					
		OBS	0030	-0090	33360	2684			14433																					
		STD	0050	-0090	3353	2698	0010835	0069	14439																					
		OBS	0050	-0090	33530	2698			14439																					
		STD	0075	-0037	3366	2706	0010040	0095	14470																					
		OBS	0075	-0037	33660	2706			14470																					
		STD	0100	0025	3373	2709	0009799	0120	14503																					
		OBS	0100	0025	33730	2709			14503																					
		STD	0125	0063	3393	2723	0008488	0143	14527																					
		OBS	0125	0063	33930	2723			14527																					
		STD	0150	0088	3400	2727	0008110	0163	14544																					
		OBS	0150	0088	34000	2727			14544																					
		STD	0200	0132	3414	2735	0007349	0202	14574																					
		OBS	0200	0132	34140	2735			14574																					
		STD	0250	0164	3427	2744	0006614	0237	14598																					
		OBS	0250	0164	34270	2744			14598																					
		STD	0300	0184	3436	2749	0006108	0269	14616																					
		OBS	0300	0184	34360	2749			14616																					

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
318160	WE		75170N	068240W	259	58	09	23 152	1969	WE2	029	0440						02	2 7			0029
		WATER COLOR CODE	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
			TRANS. (m)	DIR.		DRY BULB	WET BULB															
			DT	S		09	S02					994	-003	-039	13							
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
152		STD	0000	-0028	3270	2629	0017442	0000	14448													
		OBS	0000	-0028	32700	2629			14448													
		STD	0010	-0035	3274	2632	0017104	0017	14447													
		OBS	0010	-0035	32740	2632			14447													
		STD	0020	-0090	3320	2671	0013377	0033	14430													
		OBS	0020	-0090	33200	2671			14430													
		STD	0030	-0109	3336	2685	0012084	0045	14425													
		OBS	0030	-0109	33360	2685			14425													
		STD	0050	-0118	3344	2692	0011432	0069	14425													
		OBS	0050	-0118	33440	2692			14425													
		STD	0075	-0130	3355	2701	0010537	0096	14425													
		OBS	0075	-0130	33550	2701			14425													
		STD	0100	-0091	3366	2709	0009813	0122	14449													
		OBS	0100	-0091	33660	2709			14449													
		STD	0125	-0026	3378	2716	0009160	0145	14485													
		OBS	0125	-0026	33780	2716			14485													
		STD	0150	0022	3391	2724	0008408	0167	14513													
		OBS	0150	0022	33910	2724			14513													
		STD	0200	0088	3413	2738	0007129	0206	14554													
		OBS	0200	0088	34130	2738			14554													
		STD	0250	0140	3421	2741	0006889	0241	14587													
		OBS	0250	0140	34210	2741			14587													
		STD	0300	0187	3437	2750	0006056	0274	14618													
		OBS	0300	0187	34370	2750			14618													
		STD	0400	0192	3445	2756	0005535	0332	14638													
		OBS	0400	0192	34450	2756			14638													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA	
318160	WE		75070N	068350W	259	58	09	23 169	1969	WE2	030	0620						02	3 1			0030
		WATER COLOR CODE	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
			TRANS. (m)	DIR.		DRY BULB	WET BULB															
			DT	S		17	S03					994	-019	-039	7	15						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
169		STD	0000	-0030	3254	2616	0018658	0000	14445													
		OBS	0000	-0030	32540	2616			14445													
		STD	0010	-0035	3254	2616	0018634	0019	14444													
		OBS	0010	-0035	32540	2616			14444													
		STD	0020	-0085	3305	2659	0014543	0035	14430													
		OBS	0020	-0085	33050	2659			14430													
		STD	0030	-0119	3335	2684	0012130	0049	14420													
		OBS	0030	-0119	33350	2684			14420													
		STD	0050	-0119	3344	2692	0011429	0072	14424													
		OBS	0050	-0119	33440	2692			14424													
		STD	0075	-0123	3350	2697	0010942	0100	14427													
		OBS	0075	-0123	33500	2697			14427													
		STD	0100	-0148	3366	2710	0009626	0126	14422													
		OBS	0100	-0148	33660	2710			14422													
		STD	0125	0006	3375	2712	0009544	0150	14499													
		OBS	0125	0006	33750	2712			14499													
		STD	0150	0027	3380	2715	0009271	0173	14513													
		OBS	0150	0027	33800	2715			14513													
		STD	0200	0108	3410	2734	0007488	0215	14562													
		OBS	0200	0108	34100	2734			14562													
		STD	0250	0180	3431	2746	0006434	0250	14606													
		OBS	0250	0180	34310	2746			14606													
		STD	0300	0204	3440	2751	0005968	0281	14626													
		OBS	0300	0204	34400	2751			14626													
		STD	0400	0237	3452	2758	0005396	0338	14658													
		OBS	0400	0237	34520	2758			14658													
		STD	0500	0209	3455	2763	0004973	0390	14663													
		OBS	0500	0209	34550	2763			14663													
		STD	0600	0123	3454	2768	0004361	0436	14642													
		OBS	0600	0123	34540	2768			14642													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARSOEH SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER								
CTRY CODE	IO. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT									
318160	WE		74580N	068525W		259	48	09	23	188	1969	WE2	031	0930						02	3	3	0031								
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS															
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB																			
						DT	S	08	S05	996	-009	-028	7	18																	
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ ρ 0 x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH														
188		STD	0000	0002	3215	2583	0021772		0000	14454																					
		OBS	0000	0002	32150	2583				14454																					
		STD	0010	-0030	3268	2627	0017583		0020	14449																					
		OBS	0010	-0030	32680	2627				14449																					
		STD	0020	-0127	3324	2676	0012957		0035	14413																					
		OBS	0020	-0127	33240	2676				14413																					
		STD	0030	-0149	3344	2693	0011355		0047	14407																					
		OBS	0030	-0149	33440	2693				14407																					
		STD	0050	-0142	3345	2693	0011285		0070	14414																					
		OBS	0050	-0142	33450	2693				14414																					
		STD	0075	-0161	3355	2702	0010450		0097	14410																					
		OBS	0075	-0161	33550	2702				14410																					
		STD	0100	-0137	3363	2708	0009888		0122	14427																					
		OBS	0100	-0137	33630	2708				14427																					
		STD	0125	-0021	3377	2715	0009260		0146	14487																					
		OBS	0125	-0021	33770	2715				14487																					
		STD	0150	-0018	3381	2718	0008963		0169	14493																					
		OBS	0150	-0018	33810	2718				14493																					
		STD	0200	0027	3398	2729	0007898		0211	14524																					
		OBS	0200	0027	33980	2729				14524																					
	STD	0250	0072	3414	2739	0006955		0248	14555																						
	OBS	0250	0072	34140	2739				14555																						
	STD	0300	0100	3423	2745	0006465		0282	14577																						
	OBS	0300	0100	34230	2745				14577																						
	STD	0400	0219	3448	2756	0005539		0342	14650																						
	OBS	0400	0219	34480	2756				14650																						
	STD	0500	0226	3452	2759	0005349		0396	14670																						
	OBS	0500	0226	34520	2759				14670																						
	STD	0600	0207	3452	2760	0005226		0449	14679																						
	OBS	0600	0207	34520	2760				14679																						
	STD	0700	0170	3451	2762	0005011		0500	14679																						
	OBS	0700	0170	34510	2762				14679																						
	STD	0800	0132	3451	2765	0004711		0549	14679																						
	OBS	0800	0132	34510	2765				14679																						
	STD	0900	0100	3451	2767	0004460		0595	14681																						
	OBS	0900	0100	34510	2767				14681																						

TABLE III.—Continued

REFERENCE CITY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTN	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
							10°	1°	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318160		WE	74480N	069060W		259	49	09	23	203	1969	WE2	032	1020						03	3 4		0032
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		IMBS	DRY BULB	WET BULB										
						DT	S	00	S00	007	-009	-028	7	19									
MESSENGER TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
203		STD	0000	0023	3217	2584	0021711		0000	14464													
		OBS	0000	0023	32170	2584				14464													
		STD	0010	0023	3270	2626	0017660		0020	14473													
		OBS	0010	0023	32700	2626				14473													
		STD	0020	-0085	3318	2670	0013547		0035	14432													
		OBS	0020	-0085	33180	2670				14432													
		STD	0030	-0127	3334	2684	0012183		0048	14416													
		OBS	0030	-0127	33340	2684				14416													
		STD	0050	-0155	3346	2694	0011173		0072	14408													
		OBS	0050	-0155	33460	2694				14408													
		STD	0075	-0142	3360	2705	0010119		0098	14420													
		OBS	0075	-0142	33600	2705				14420													
		STD	0100	-0128	3364	2708	0009840		0123	14431													
		OBS	0100	-0128	33640	2708				14431													
		STD	0125	-0126	3378	2719	0008761		0146	14438													
		OBS	0125	-0126	33780	2719				14438													
		STD	0150	0038	3391	2723	0008496		0168	14520													
		OBS	0150	0038	33910	2723				14520													
		STD	0200	0050	3405	2733	0007500		0208	14536													
		OBS	0200	0050	34050	2733				14536													
		STD	0250	0082	3425	2748	0006186		0242	14561													
		OBS	0250	0082	34250	2748				14561													
		STD	0300	0150	3440	2755	0005542		0271	14602													
		OBS	0300	0150	34400	2755				14602													
		STD	0400	0224	3454	2761	0005131		0325	14653													
		OBS	0400	0224	34540	2761				14653													
		STD	0500	0239	3455	2760	0005242		0377	14676													
		OBS	0500	0239	34550	2760				14676													
	STD	0600	0182	3455	2765	0004780		0427	14668														
	OBS	0600	0182	34550	2765				14668														
	STD	0700	0143	3452	2765	0004703		0474	14667														
	OBS	0700	0143	34520	2765				14667														
	STD	0800	0111	3450	2766	0004608		0521	14669														
	OBS	0800	0111	3455P	2770P																		
	STD	0900	0088	3449	2766	0004509		0566	14676														
	OBS	0900	0088	34490	2766				14676														
	STD	1000	0070	3449	2768	0004371		0611	14684														
	OBS	1000	0070	34490	2768				14684														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OBT INDCTR	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	74590N	070425W		260	40	09	24	002		1969	WE2	033	0820						70	6	8	0033
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. 1m	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	27	512	004	-006	-006	7	17										
MESSAGE TIME HR 1/10	CAST ND.	CARD TYPE	DEPTN (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	NO ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S C C						
002		STO	0000	-0008	3250	2612	0019054		0000	14455														
		OBS	0000	-0008	32500	2612				14455														
		STO	0010	-0090	3300	2655	0014915		0017	14425														
		OBS	0010	-0090	33000	2655				14425														
		STO	0020	-0143	3337	2687	0011915		0030	14407														
		OBS	0020	-0143	33370	2687				14407														
		STO	0030	-0152	3348	2696	0011041		0042	14406														
		OBS	0030	-0152	33480	2696				14406														
		STO	0050	-0153	3360	2706	0010104		0063	14411														
		OBS	0050	-0153	33600	2706				14411														
		STO	0075	-0140	3366	2710	0009665		0088	14422														
		OBS	0075	-0140	33660	2710				14422														
		STO	0100	-0110	3376	2717	0008981		0111	14441														
		OBS	0100	-0110	33760	2717				14441														
		STO	0125	-0038	3387	2723	0008419		0133	14480														
		OBS	0125	-0038	33870	2723				14480														
		STO	0150	0027	3393	2725	0008283		0154	14515														
		OBS	0150	0027	33930	2725				14515														
		STO	0200	0075	3414	2739	0006970		0192	14548														
		OBS	0200	0075	34140	2739				14548														
		STO	0250	0115	3428	2748	0006182		0225	14576														
		OBS	0250	0115	34280	2748				14576														
		STO	0300	0149	3437	2753	0005761		0255	14601														
		OBS	0300	0149	34370	2753				14601														
	STO	0400	0168	3447	2759	0005188		0309	14627															
	OBS	0400	0168	34470	2759				14627															
	STO	0500	0156	3449	2762	0004974		0360	14639															
	OBS	0500	0156	34490	2762				14639															
	STO	0600	0133	3451	2765	0004667		0408	14646															
	OBS	0600	0133	34510	2765				14646															
	STO	0700	0090	3451	2768	0004344		0453	14643															
	OBS	0700	0090	34510	2768				14643															
	STO	0800	0034	3450	2771	0004000		0495	14635															
	OBS	0800	0034	34500	2771				14635															

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD			NDOC	
CTRY	IO.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	DIR	HGT	PER	SEA	CODE	TYPE	AMT	STATION
												NO.	NUMBER	BOTTOM	OF								NUMBER
318160	WE		75070N	070280W		260	50	09	24	017	1969	WE2	034	0620						70	X	9	0034
						WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL					
						COLOR	TRANS.	DIR.	SPEED		METER	DRY	WET										
						CODE	(m)		OR FORCE		(mba)	BULB	BULB										
						DT	S	00	S00	014	-006	-006	7	15									
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME		ANOMALY-σ _t		Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₂ -N	SiO ₄ -Si	pH				
TIME	NO.	TYPE									10 ³	VELOCITY		μg - ol/l	μg - ol/l	μg - ol/l	μg - ol/l	μg - ol/l					
HR 1/10																							
	017	STD	0000	-0010	3255	2616	0018663		0000		14454												
		OBS	0000	-0010	32550	2616					14454												
		STD	0010	-0016	3264	2623	0017946		0018		14454												
		OBS	0010	-0016	32640	2623					14454												
		STD	0020	-0122	3323	2675	0013048		0034		14415												
		OBS	0020	-0122	33230	2675					14415												
		STD	0030	-0150	3349	2697	0010969		0046		14407												
		OBS	0030	-0150	33490	2697					14407												
		STD	0050	-0159	3357	2703	0010318		0067		14407												
		OBS	0050	-0159	33570	2703					14407												
		STD	0075	-0162	3366	2711	0009604		0092		14411												
		OBS	0075	-0162	33660	2711					14411												
		STD	0100	-0152	3372	2715	0009155		0115		14421												
		OBS	0100	-0152	33720	2715					14421												
		STD	0125	-0048	3386	2723	0008450		0137		14476												
		OBS	0125	-0048	33860	2723					14476												
		STD	0150	0007	3396	2728	0007947		0158		14507												
		OBS	0150	0007	33960	2728					14507												
		STD	0200	0083	3417	2741	0006794		0195		14552												
		OBS	0200	0083	34170	2741					14552												
		STD	0250	0128	3432	2750	0005971		0227		14583												
		OBS	0250	0128	34320	2750					14583												
		STD	0300	0155	3442	2756	0005429		0255		14604												
		OBS	0300	0155	34420	2756					14604												
		STD	0400	0206	3450	2759	0005277		0309		14645												
		OBS	0400	0206	34500	2759					14645												
		STD	0500	0193	3452	2761	0005059		0360		14656												
		OBS	0500	0193	34520	2761					14656												
		STD	0600	0128	3452	2766	0004551		0408		14644												
		OBS	0600	0128	34520	2766					14644												

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH	MARSDEN		STATION TIME		YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD			NDOC	
CTRY	IO.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	DIR	HGT	PER	SEA	CODE	TYPE	AMT	STATION
												NO.	NUMBER	BOTTOM	OF								NUMBER
318160	WE		75160N	070070W		260	50	09	24	033	1969	WE2	035	0570						71	X	9	0035
						WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO.		SPECIAL					
						COLOR	TRANS.	DIR.	SPEED		METER	DRY	WET										
						CODE	(m)		OR FORCE		(mba)	BULB	BULB										
						DT	S	34	S10	005	-006	-006	14										
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME		ANOMALY-σ _t		Σ Δ σ	SOUND	O ₂ ml/l	PO ₄ -P	TOTAL-P	NO ₃ -N	NO ₂ -N	SiO ₄ -Si	pH				
TIME	NO.	TYPE									10 ³	VELOCITY		μg - ol/l	μg - ol/l	μg - ol/l	μg - ol/l	μg - ol/l					
HR 1/10																							
	033	STD	0000	-0010	3245	2608	0019428		0000		14453												
		OBS	0000	-0010	32450	2608					14453												
		STD	0010	-0013	3253	2614	0018799		0019		14454												
		OBS	0010	-0013	32530	2614					14454												
		STD	0020	-0024	3280	2636	0016685		0037		14455												
		OBS	0020	-0024	32800	2636					14455												
		STD	0030	-0147	3338	2688	0011821		0051		14407												
		OBS	0030	-0147	33380	2688					14407												
		STD	0050	-0158	3355	2702	0010475		0073		14407												
		OBS	0050	-0158	33550	2702					14407												
		STD	0075	-0129	3364	2708	0009851		0099		14427												
		OBS	0075	-0129	33640	2708					14427												
		STD	0100	-0095	3373	2714	0009264		0123		14448												
		OBS	0100	-0095	33730	2714					14448												
		STD	0125	-0023	3386	2722	0008564		0145		14487												
		OBS	0125	-0023	33860	2722					14487												
		STD	0150	0039	3398	2728	0007969		0166		14521												
		OBS	0150	0039	33980	2728					14521												
		STD	0200	0109	3417	2739	0006964		0203		14564												
		OBS	0200	0109	34170	2739					14564												
		STD	0250	0154	3431	2748	0006236		0236		14594												
		OBS	0250	0154	34310	2748					14594												
		STD	0300	0169	3440	2754	0005688		0266		14610												
		OBS	0300	0169	34400	2754					14610												
		STD	0400	0228	3450	2757	0005467		0322		14654												
		OBS	0400	0228	34500	2757					14654												
		STD	0500	0172	3451	2762	0004956		0374		14646												
		OBS	0500	0172	34510	2762					14646												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY POST	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. MO.					10"	1"	MO	DAY	HR		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75250N	069480W		259	59	09	24	048	1969	WE2	036	0550					85	9		0036		
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	34	S10	955	-006	-006	14											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C						
048		STD	0000	-0023	3263	2623	0017998		0000	14449														
		OBS	0000	-0023	32630	2623				14449														
		STD	0010	-0024	3270	2628	0017454		0018	14452														
		OBS	0010	-0024	32700	2628				14452														
		STD	0020	-0110	3325	2676	0012930		0033	14421														
		OBS	0020	-0110	33250	2676				14421														
		STD	0030	-0145	3340	2689	0011673		0045	14408														
		OBS	0030	-0145	33400	2689				14408														
		STD	0050	-0150	3353	2700	0010649		0068	14411														
		OBS	0050	-0150	33530	2700				14411														
		STD	0075	-0155	3360	2706	0010082		0093	14414														
		OBS	0075	-0155	33600	2706				14414														
		STD	0100	-0122	3373	2715	0009170		0118	14435														
		OBS	0100	-0122	33730	2715				14435														
		STD	0125	-0064	3380	2719	0008840		0140	14467														
		OBS	0125	-0064	33800	2719				14467														
		STD	0150	-0020	3395	2729	0007887		0161	14494														
		OBS	0150	-0020	33950	2729				14494														
	STD	0200	0078	3414	2739	0006989		0198	14550															
	OBS	0200	0078	34140	2739				14550															
	STD	0250	0150	3427	2745	0006509		0232	14592															
	OBS	0250	0150	34270	2745				14592															
	STD	0300	0194	3442	2753	0005736		0262	14622															
	OBS	0300	0194	34420	2753				14622															
	STD	0400	0221	3450	2758	0005406		0318	14651															
	OBS	0400	0221	34500	2758				14651															
	STD	0500	0184	3452	2762	0004982		0370	14652															
	OBS	0500	0184	34520	2762				14652															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY POST	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. MO.					10"	1"	MO	DAY	HR		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE		75355N	069280W		259	59	09	24	063	1969	WE2	037	0490					85	9		0037		
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB													
						DT	S	34	S08	955	-006	-022	13											
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO ₂ -N $\mu\text{g} - \text{ml/l}$	NO ₃ -N $\mu\text{g} - \text{ml/l}$	SiO ₄ -Si $\mu\text{g} - \text{ml/l}$	pH	S C						
063		STD	0000	0000	3262	2621	0018170		0000	14460														
		OBS	0000	0000	32620	2621				14460														
		STD	0010	-0008	3275	2632	0017138		0018	14460														
		OBS	0010	-0008	32750	2632				14460														
		STD	0020	-0078	3326	2676	0012959		0033	14436														
		OBS	0020	-0078	33260	2676				14436														
		STD	0030	-0092	3335	2684	0012216		0045	14432														
		OBS	0030	-0092	33350	2684				14432														
		STD	0050	-0119	3350	2697	0010969		0068	14425														
		OBS	0050	-0119	33500	2697				14425														
		STD	0075	-0112	3363	2707	0009982		0095	14434														
		OBS	0075	-0112	33630	2707				14434														
		STD	0100	-0022	3379	2716	0009108		0119	14483														
		OBS	0100	-0022	33790	2716				14483														
		STD	0125	0013	3388	2722	0008591		0141	14504														
		OBS	0125	0013	33880	2722				14504														
		STD	0150	0054	3396	2726	0008207		0162	14528														
		OBS	0150	0054	33960	2726				14528														
	STD	0200	0100	3412	2736	0007283		0200	14559															
	OBS	0200	0100	34120	2736				14559															
	STD	0250	0145	3428	2746	0006397		0235	14590															
	OBS	0250	0145	34280	2746				14590															
	STD	0300	0183	3440	2753	0005798		0265	14617															
	OBS	0300	0183	34400	2753				14617															
	STD	0400	0196	3450	2760	0005192		0320	14640															
	OBS	0400	0196	34500	2760				14640															

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT METER	MARS SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
					10"	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318160	WE	75355N	069280W		259	59	09	24	063	1969	WE2	037	0490						85	9		0037
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	DRY RULE	WET RULE												
					DT	S	34	S08	955	-006	-022	13										
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ O DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH				
063		STD	0000	0000	3262	2621		0018170		0000	14460											
		OBS	0000	0000	32620	2621					14460											
		STD	0010	-0008	3275	2632		0017138		0018	14460											
		OBS	0010	-0008	32750	2632					14460											
		STD	0020	-0078	3326	2676		0012959		0033	14436											
		OBS	0020	-0078	33260	2676					14436											
		STD	0030	-0092	3335	2684		0012216		0045	14432											
		OBS	0030	-0092	33350	2684					14432											
		STD	0050	-0119	3350	2697		0010969		0068	14425											
		OBS	0050	-0119	33500	2697					14425											
		STD	0075	-0112	3363	2707		0009982		0095	14434											
		OBS	0075	-0112	33630	2707					14434											
		STD	0100	-0022	3379	2716		0009108		0119	14483											
		OBS	0100	-0022	33790	2716					14483											
		STD	0125	0013	3388	2722		0008591		0141	14504											
		OBS	0125	0013	33880	2722					14504											
		STD	0150	0054	3396	2726		0008207		0162	14528											
		OBS	0150	0054	33960	2726					14528											
	STD	0200	0100	3412	2736		0007283		0200	14559												
	OBS	0200	0100	34120	2736					14559												
	STD	0250	0145	3428	2746		0006397		0235	14590												
	OBS	0250	0145	34280	2746					14590												
	STD	0300	0183	3440	2753		0005798		0265	14617												
	OBS	0300	0183	34400	2753					14617												
	STD	0400	0196	3450	2760		0005192		0320	14640												
	OBS	0400	0196	34500	2760					14640												

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARS SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
					10"	1"	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318160	WE	75428N	069120W		259	59	09	24	095	1969	WF2 038	0360						85	7	8		0038
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	(mbars)		DRY BULB	WET BULB										
					DT	S	34	508	002	-019	-025	12										
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C				
095		STD	0000	-0024	3265	2624	0017841		0000	14449												
		OBS	0000	-0024	32650	2624				14449												
		STD	0010	-0030	3304	2656	0014829		0016	14454												
		OBS	0010	-0030	33040	2656				14454												
		STD	0020	-0102	3333	2682	0012342		0030	14426												
		OBS	0020	-0102	33330	2682				14426												
		STD	0030	-0114	3344	2692	0011455		0042	14423												
		OBS	0030	-0114	33440	2692				14423												
		STD	0050	-0121	3356	2701	0010503		0064	14425												
		OBS	0050	-0121	33560	2701				14425												
		STD	0075	-0112	3363	2707	0009982		0089	14434												
		OBS	0075	-0112	33630	2707				14434												
		STD	0100	-0085	3374	2715	0009224		0113	14453												
		OBS	0100	-0085	33740	2715				14453												
		STD	0125	-0048	3382	2720	0008755		0136	14475												
		OBS	0125	-0048	33820	2720				14475												
		STD	0150	0040	3398	2728	0007975		0157	14522												
		OBS	0150	0040	33980	2728				14522												
		STD	0200	0115	3415	2737	0007156		0195	14566												
		OBS	0200	0115	34150	2737				14566												
		STD	0250	0171	3427	2743	0006667		0229	14601												
		OBS	0250	0171	34270	2743				14601												
		STD	0300	0186	3437	2750	0006048		0261	14617												
		OBS	0300	0186	34370	2750				14617												

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUT MOÏT	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
318160	WE	75510N	068500W		259	58	09	24	108	1969	WE2 039		0320						71	7	8		0039	
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB												
					DT	S	00	500	016	-019	-028		12											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	SiO ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C						
108		STD	0000	0047	3220	2585	0021595		0000	14476														
		OBS	0000	0047	32200	2585				14476														
		STD	0010	0045	3250	2609	0019292		0020	14480														
		OBS	0010	0045	32500	2609				14480														
		STD	0020	0015	3286	2640	0016398		0038	14473														
		OBS	0020	0015	32860	2640				14473														
		STD	0030	-0024	3306	2657	0014694		0054	14460														
		OBS	0030	-0024	33060	2657				14460														
		STD	0050	-0046	3332	2679	0012608		0081	14457														
		OBS	0050	-0046	33320	2679				14457														
		STD	0075	-0038	3351	2694	0011181		0111	14467														
		OBS	0075	-0038	33510	2694				14467														
		STD	0100	-0023	3362	2703	0010400		0138	14480														
		OBS	0100	-0023	33620	2703				14480														
		STD	0125	0010	3373	2710	0009717		0163	14501														
		OBS	0125	0010	33730	2710				14501														
		STD	0150	0028	3384	2718	0008972		0186	14514														
		OBS	0150	0028	33840	2718				14514														
		STD	0200	0097	3405	2731	0007794		0228	14557														
		OBS	0200	0097	34050	2731				14557														
		STD	0250	0149	3422	2741	0006879		0265	14591														
		OBS	0250	0149	34220	2741				14591														
		STD	0300	0173	3433	2748	0006247		0298	14611														
		OBS	0300	0173	34330	2748				14611														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT HOURS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER							
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT						
318160	WE	76003N	068300W	259	68	09	24	122	1969	WE2	040		0100						71	7	8	0040							
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB																	
						DT	S	06	S16	022	-017	-028	06																
MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ CYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C												
	122	STD	0000	-0020	3050	2451	0034324	0000	14421																				
		OBS	0000	-0020	30500	2451			14421																				
		STD	0010	-0030	3050	2451	0034282	0034	14418																				
		OBS	0010	-0030	30500	2451			14418																				
		STD	0020	0010	3180	2555	0024474	0064	14456																				
		OBS	0020	0010	31800	2555			14456																				
		STD	0030	0022	3235	2598	0020321	0086	14471																				
		OBS	0030	0022	32350	2598			14471																				
		STD	0050	-0023	3286	2641	0016219	0123	14461																				
		OBS	0050	-0023	32860	2641			14461																				
		STD	0075	-0048	3317	2667	0013736	0160	14458																				
		OBS	0075	-0048	33170	2667			14458																				

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT HOURS	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER							
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT						
318160	WE	76082N	069200W	259	69	09	24	138	1969	WE2	041		0170						01	7	7	0041							
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB																	
						DT	S	06	S16	022	-017	-028	09																
MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t	Σ Δ ρ CYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C C												
	138	STD	0000	0020	3152	2532	0026667	0000	14454																				
		OBS	0000	0020	31520	2532			14454																				
		STD	0010	0015	3158	2537	0026182	0026	14454																				
		OBS	0010	0015	31580	2537			14454																				
		STD	0020	0015	3181	2555	0024419	0052	14459																				
		OBS	0020	0015	31810	2555			14459																				
		STD	0030	0032	3260	2618	0018460	0073	14479																				
		OBS	0030	0032	32600	2618			14479																				
		STD	0050	-0048	3319	2669	0013594	0105	14454																				
		OBS	0050	-0048	33190	2669			14454																				
		STD	0075	-0043	3350	2694	0011236	0136	14465																				
		OBS	0075	-0043	33500	2694			14465																				
		STD	0100	-0014	3364	2704	0010290	0163	14484																				
		OBS	0100	-0014	33640	2704			14484																				
		STD	0125	-0001	3369	2707	0009966	0188	14495																				
		OBS	0125	-0001	33690	2707			14495																				
		STD	0150	0010	3375	2711	0009561	0213	14505																				
		OBS	0150	0010	33750	2711			14505																				

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318160	WE		76000N	069470W	259	69	09	24	149	1969	WE2	042	0420					72	7	8	0042
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
DT	S	10	S16	024	-025	-031				13											
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC				
149		STD	0000	0003	3254	2614	0018795	0000	14460												
		OBS	0000	0003	32540	2614			14460												
		STD	0010	0002	3258	2618	0018481	0019	14462												
		OBS	0010	0002	32580	2618			14462												
		STD	0020	-0090	3325	2675	0012994	0034	14430												
		OBS	0020	-0090	33250	2675			14430												
		STD	0030	-0114	3336	2685	0012069	0047	14422												
		OBS	0030	-0114	33360	2685			14422												
		STD	0050	-0124	3350	2697	0010953	0070	14423												
		OBS	0050	-0124	33500	2697			14423												
		STD	0075	-0142	3354	2700	0010579	0097	14419												
		OBS	0075	-0142	33540	2700			14419												
		STD	0100	-0086	3368	2710	0009679	0122	14451												
		OBS	0100	-0086	33680	2710			14451												
		STD	0125	-0042	3385	2722	0008553	0145	14478												
		OBS	0125	-0042	33850	2722			14478												
		STD	0150	0050	3396	2726	0008184	0166	14526												
		OBS	0150	0050	33960	2726			14526												
		STD	0200	0114	3412	2735	0007377	0205	14565												
		OBS	0200	0114	34120	2735			14565												
	STD	0250	0164	3426	2743	0006689	0240	14598													
	OBS	0250	0164	34260	2743			14598													
	STD	0300	0182	3437	2750	0006016	0272	14616													
	OBS	0300	0182	34370	2750			14616													
	STD	0400	0187	3445	2756	0005493	0329	14636													
	OBS	0400	0187	34450	2756			14636													

REFERENCE		SHIP CODE	LATITUDE 1°/10	LONGITUDE 1°/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10°	1°	MO	DAY		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE	
318160	WE		75540N	070150W	260	50	09	24	173	1969	WE2	043	0500					70	3	6	0043
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
DT	S	00	S00	032	-025	-031				7	14										
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S CC				
173		STD	0000	-0007	3252	2613	0018905	0000	14455												
		OBS	0000	-0007	32520	2613			14455												
		STD	0010	-0014	3256	2617	0018566	0019	14454												
		OBS	0010	-0014	32560	2617			14454												
		STD	0020	-0065	3306	2659	0014537	0035	14439												
		OBS	0020	-0065	33060	2659			14439												
		STD	0030	-0138	3340	2689	0011692	0048	14412												
		OBS	0030	-0138	33400	2689			14412												
		STD	0050	-0126	3350	2697	0010947	0071	14422												
		OBS	0050	-0126	33500	2697			14422												
		STD	0075	-0133	3360	2705	0010145	0097	14424												
		OBS	0075	-0133	33600	2705			14424												
		STD	0100	-0072	3374	2714	0009275	0122	14459												
		OBS	0100	-0072	33740	2714			14459												
		STD	0125	0035	3388	2721	0008709	0144	14514												
		OBS	0125	0035	33880	2721			14514												
		STD	0150	0080	3395	2724	0008439	0166	14540												
		OBS	0150	0080	33950	2724			14540												
		STD	0200	0137	3414	2735	0007385	0205	14576												
		OBS	0200	0137	34140	2735			14576												
	STD	0250	0130	3425	2744	0006515	0240	14583													
	OBS	0250	0130	34250	2744			14583													
	STD	0300	0054	3425	2749	0006010	0271	14557													
	OBS	0300	0054	34250	2749			14557													
	STD	0400	-0029	3430	2758	0005132	0327	14536													
	OBS	0400	-0029	34300	2758			14536													
	STD	0500	-0028	3432	2759	0004969	0377	14554													
	OBS	0500	-0028	34320	2759			14554													

TABLE III.—Continued

REFERENCE CRUISE CODE	SHIP IC. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	HAUSE INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- TH- ER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318160	WE		75465N	070420W		260	50	09	24	194	1969	WE2	044		0440					03	6	7		0044	
						WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB										
						DT	S	16	S08	044	-012	-023	7	13											

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S
	194	STD	0000	-0030	3262	2622	0018046	0000	14446								
		OBS	0000	-0030	32620	2622			14446								
		STD	0010	-0030	3290	2645	0015900	0017	14452								
		OBS	0010	-0030	32900	2645			14452								
		STD	0020	-0115	3345	2692	0011381	0031	14421								
		OBS	0020	-0115	33450	2692			14421								
		STD	0030	-0127	3353	2699	0010726	0042	14419								
		OBS	0030	-0127	33530	2699			14419								
		STD	0050	-0125	3362	2706	0010031	0062	14424								
		OBS	0050	-0125	33620	2706			14424								
		STD	0075	-0095	3373	2714	0009275	0087	14444								
		OBS	0075	-0095	33730	2714			14444								
		STD	0100	-0064	3382	2720	0008696	0109	14464								
		OBS	0100	-0064	33820	2720			14464								
		STD	0125	0048	3395	2725	0008249	0130	14521								
		OBS	0125	0048	33950	2725			14521								
		STD	0150	0070	3403	2731	0007771	0150	14536								
		OBS	0150	0070	34030	2731			14536								
		STD	0200	0032	3413	2741	0006788	0187	14529								
		OBS	0200	0032	34130	2741			14529								
		STD	0250	0046	3424	2749	0006035	0219	14545								
		OBS	0250	0046	34240	2749			14545								
		STD	0300	0042	3428	2752	0005708	0248	14552								
		OBS	0300	0042	34280	2752			14552								
		STD	0400	-0028	3432	2759	0004986	0302	14537								
		OBS	0400	-0028	34320	2759			14537								

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	HAUSE INDEX	MARSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318160	WE		75400N	071110W	260	51	09	24	238	1969	WE2	045		0470					70	6	8	0045
						WATER		WIND		AIR TEMP. °C		BARO-METER (mb)		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	
						DT	S	14	S10	052	-017	-022	7	13								

MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S
	238	STD	0000	-0020	3235	2600	0020152	0000	14447								
		OBS	0000	-0020	32350	2600			14447								
		STD	0010	-0022	3255	2616	0018609	0019	14450								
		OBS	0010	-0022	32550	2616			14450								
		STD	0020	-0112	3335	2684	0012157	0035	14421								
		OBS	0020	-0112	33350	2684			14421								
		STD	0030	-0121	3343	2691	0011511	0047	14420								
		OBS	0030	-0121	33430	2691			14420								
		STD	0050	-0127	3356	2702	0010484	0069	14422								
		OBS	0050	-0127	33560	2702			14422								
		STD	0075	-0110	3375	2716	0009070	0093	14437								
		OBS	0075	-0110	33750	2716			14437								
		STD	0100	-0072	3388	2726	0008205	0115	14461								
		OBS	0100	-0072	33880	2726			14461								
		STD	0125	0028	3395	2727	0008138	0135	14512								
		OBS	0125	0028	33950	2727			14512								
		STD	0150	0074	3398	2726	0008175	0155	14537								
		OBS	0150	0074	33980	2726			14537								
		STD	0200	0131	3419	2740	0006964	0193	14574								
		OBS	0200	0131	34190	2740			14574								
		STD	0250	0072	3420	2744	0006500	0227	14556								
		OBS	0250	0072	34200	2744			14556								
		STD	0300	0015	3422	2749	0006001	0258	14539								
		OBS	0300	0015	34220	2749			14539								
		STD	0400	0017	3435	2759	0005022	0313	14558								
		OBS	0400	0017	34350	2759			14558								

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160		WE	75320N	071350W		260	51	09	25	014	1969	WE2	046	0530						00	6	7	0046
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR	TRANS.	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	14	S10	055	-017	-022	7	14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ σ OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C						
014		STD	0000	0000	3230	2595	0020617	0000	14455														
		OBS	0000	0000	32300	2595			14455														
		STD	0010	-0014	3260	2620	0018260	0019	14455														
		OBS	0010	-0014	32600	2620			14455														
		STD	0020	-0125	3336	2685	0012042	0035	14415														
		OBS	0020	-0125	33360	2685			14415														
		STD	0030	-0140	3344	2692	0011379	0046	14411														
		OBS	0030	-0140	33440	2692			14411														
		STD	0050	-0144	3357	2703	0010359	0068	14414														
		OBS	0050	-0144	33570	2703			14414														
		STD	0075	-0118	3368	2711	0009579	0093	14432														
		OBS	0075	-0118	33680	2711			14432														
		STD	0100	-0095	3378	2718	0008881	0116	14449														
		OBS	0100	-0095	33780	2718			14449														
		STD	0125	0010	3395	2728	0008043	0137	14504														
		OBS	0125	0010	33950	2728			14504														
		STD	0150	0048	3397	2727	0008097	0157	14525														
		OBS	0150	0048	33970	2727			14525														
		STD	0200	0150	3420	2739	0007024	0195	14583														
		OBS	0200	0150	34200	2739			14583														
	STD	0250	0152	3428	2745	0006448	0229	14593															
	OBS	0250	0152	34280	2745			14593															
	STD	0300	0190	3445	2756	0005477	0259	14620															
	OBS	0300	0190	34450	2756			14620															
	STD	0400	0199	3450	2759	0005218	0312	14642															
	OBS	0400	0199	34500	2759			14642															
	STD	0500	0138	3451	2765	0004679	0362	14631															
	OBS	0500	0138	34510	2765			14631															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER
CRUISE CODE	IO. NO.						10"	1"	MO		DAY	HR,1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
318160	WE	75250N	072020W		260	52 09 25 028	1969	WE2	047			0570					73	3	8		0047
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
						DT	S	14	S08	051	-011	-011	4	14							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t ?	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C				
028		STD	0000	-0040	3260	2621	0018161	0000	14441												
		OBS	0000	-0040	32600	2621			14441												
		STD	0010	-0045	3260	2621	0018137	0018	14440												
		OBS	0010	-0045	32600	2621			14440												
		STD	0020	-0130	3327	2678	0012718	0034	14412												
		OBS	0020	-0130	33270	2678			14412												
		STD	0030	-0148	3347	2695	0011128	0045	14408												
		OBS	0030	-0148	33470	2695			14408												
		STD	0050	-0148	3358	2704	0010271	0067	14413												
		OBS	0050	-0148	33580	2704			14413												
		STD	0075	-0149	3362	2707	0009945	0092	14417												
		OBS	0075	-0149	33620	2707			14417												
		STD	0100	-0140	3368	2712	0009496	0116	14426												
		OBS	0100	-0140	33680	2712			14426												
		STD	0125	-0080	3384	2723	0008469	0139	14461												
		OBS	0125	-0080	33840	2723			14461												
		STD	0150	-0008	3393	2727	0008099	0160	14499												
	OBS	0150	-0008	33930	2727			14499													
	STD	0200	0090	3414	2738	0007066	0198	14555													
	OBS	0200	0090	34140	2738			14555													
	STD	0250	0130	3426	2745	0006439	0231	14583													
	OBS	0250	0130	34260	2745			14583													
	STD	0300	0160	3437	2752	0005845	0262	14606													
	OBS	0300	0160	34370	2752			14606													
	STD	0400	0227	3452	2759	0005308	0318	14654													
	OBS	0400	0227	34520	2759			14654													
	STD	0500	0168	3451	2763	0004923	0369	14645													
	OBS	0500	0168	34510	2763			14645													

TABLE III.-Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN/100	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CRUISE CODE	NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160		WE	75180N	072300W		260	52	09	25	040	1969	WE2	048	0550						85	8	6	0048
						WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IN/1	DIR.	SPEED OR FORCE	DRY BULB		WET BULB											
						DT	S	14	S08	051	-011	-011	9	14									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
040	STD	0000	-0033	3255	2617	0018570	0000	14444															
	OBS	0000	-0033	32550	2617			14444															
	STD	0010	-0037	3264	2624	0017861	0018	14445															
	OBS	0010	-0037	32640	2624			14445															
	STD	0020	-0125	3332	2682	0012348	0033	14415															
	OBS	0020	-0125	33320	2682			14415															
	STD	0030	-0147	3344	2692	0011361	0045	14408															
	OBS	0030	-0147	33440	2692			14408															
	STD	0050	-0150	3355	2701	0010496	0067	14411															
	OBS	0050	-0150	33550	2701			14411															
	STD	0075	-0148	3365	2710	0009718	0092	14418															
	OBS	0075	-0148	33650	2710			14418															
	STD	0100	-0120	3370	2713	0009406	0116	14436															
	OBS	0100	-0120	33700	2713			14436															
	STD	0125	-0072	3383	2722	0008578	0139	14464															
	OBS	0125	-0072	33830	2722			14464															
	STD	0150	-0010	3393	2727	0008089	0160	14498															
	OBS	0150	-0010	33930	2727			14498															
	STD	0200	0067	3410	2736	0007224	0198	14544															
	OBS	0200	0067	34100	2736			14544															
	STD	0250	0120	3427	2747	0006293	0232	14578															
	OBS	0250	0120	34270	2747			14578															
	STD	0300	0153	3436	2752	0005867	0262	14603															
	OBS	0300	0153	34360	2752			14603															
	STD	0400	0180	3447	2758	0005285	0318	14633															
	OBS	0400	0180	34470	2758			14633															
	STD	0500	0180	3452	2762	0004948	0369	14650															
	OBS	0500	0180	34520	2762			14650															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN/100	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CRUISE CODE	NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318160		WE	76599N	071340W		260	61	09	27	239	1969	WE2	049	0720						71	X	9	0049
						WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IN/1	DIR.	SPEED OR FORCE	DRY BULB		WET BULB											
						DT	S	00	S00	202	-017	-022	7	16									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
239	STD	0000	-0010	3175	2551	0024784	0000	14443															
	OBS	0000	-0010	31750	2551			14443															
	STD	0010	-0020	3184	2559	0024050	0024	14441															
	OBS	0010	-0020	31840	2559			14441															
	STD	0020	-0023	3185	2560	0023957	0048	14442															
	OBS	0020	-0023	31850	2560			14442															
	STD	0030	-0020	3195	2568	0023198	0072	14446															
	OBS	0030	-0020	31950	2568			14446															
	STD	0050	-0012	3269	2627	0017565	0113	14464															
	OBS	0050	-0012	32690	2627			14464															
	STD	0075	-0025	3302	2654	0014979	0153	14466															
	OBS	0075	-0025	33020	2654			14466															
	STD	0100	-0040	3333	2680	0012538	0188	14468															
	OBS	0100	-0040	33330	2680			14468															
	STD	0125	-0040	3339	2685	0012071	0219	14473															
	OBS	0125	-0040	33390	2685			14473															
	STD	0150	-0040	3347	2691	0011452	0248	14478															
	OBS	0150	-0040	33470	2691			14478															
	STD	0200	-0010	3378	2715	0009220	0300	14505															
	OBS	0200	-0010	33780	2715			14505															
	STD	0250	0029	3390	2723	0008513	0344	14532															
	OBS	0250	0029	33900	2723			14532															
	STD	0300	0080	3417	2741	0006784	0382	14567															
	OBS	0300	0080	34170	2741			14567															
	STD	0400	0078	3431	2753	0005722	0445	14585															
	OBS	0400	0078	34310	2753			14585															
	STD	0500	0079	3437	2757	0005287	0500	14603															
	OBS	0500	0079	34370	2757			14603															
STD	0600	0080	3439	2759	0005155	0552	14620																
OBS	0600	0080	34390	2759			14620																
STD	0700	0082	3442	2761	0004957	0603	14638																
OBS	0700	0082	34420	2761			14638																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUST INDEX	MARS SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BDTDM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. ND.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE		76510N	071580W		260	61	09	28	015	1969	WE2	050		0810					71	X	9	0050	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	DRY BULB		WET BULB												
						DT	S	00	S00	208		-017	-022	7	17									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	1/2 C					
015		STD	0000	-0044	3285	2641	0016232		0000		14443													
		OBS	0000	-0044	32850	2641					14443													
		STD	0010	-0049	3285	2642	0016208		0016		14442													
		OBS	0010	-0049	32850	2642					14442													
		STD	0020	-0059	3287	2644	0016013		0032		14439													
		OBS	0020	-0059	32870	2644					14439													
		STD	0030	-0051	3316	2667	0013819		0047		14449													
		OBS	0030	-0051	33160	2667					14449													
		STD	0050	-0045	3332	2679	0012612		0074		14457													
		OBS	0050	-0045	33320	2679					14457													
		STD	0075	-0048	3348	2692	0011368		0104		14462													
		OBS	0075	-0048	3382P	2720P																		
		STD	0100	-0048	3360	2702	0010442		0131		14468													
		OBS	0100	-0048	33600	2702					14468													
		STD	0125	-0009	3367	2706	0010079		0157		14491													
		OBS	0125	-0009	33670	2706					14491													
		STD	0150	0012	3374	2711	0009647		0181		14506													
		OBS	0150	0012	33740	2711					14506													
		STD	0200	0090	3404	2730	0007824		0225		14554													
		OBS	0200	0090	34040	2730					14554													
		STD	0250	0109	3412	2735	0007351		0263		14571													
		OBS	0250	0109	34120	2735					14571													
		STD	0300	0073	3417	2742	0006737		0298		14564													
		OBS	0300	0073	34170	2742					14564													
		STD	0400	0067	3430	2753	0005722		0360		14580													
		OBS	0400	0067	34300	2753					14580													
		STD	0500	0083	3438	2758	0005240		0415		14605													
		OBS	0500	0083	34380	2758					14605													
		STD	0600	0090	3441	2760	0005080		0467		14625													
		OBS	0600	0090	34410	2760					14625													
		STD	0700	0088	3445	2763	0004779		0516		14642													
		OBS	0700	0088	34450	2763					14642													
		STD	0800	0090	3445	2763	0004809		0564		14659													
		OBS	0800	0090	34450	2763					14659													
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	DRY BULB		WET BULB												
						DT	S	19	S06	210		-039	-050	8	12									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	1/2 C					
028		STD	0000	-0074	3295	2651	0015357		0000		14430													
		OBS	0000	-0074	32950	2651					14430													
		STD	0010	-0070	3298	2653	0015136		0015		14434													
		OBS	0010	-0070	32980	2653					14434													
		STD	0020	-0062	3310	2662	0014241		0030		14441													
		OBS	0020	-0062	33100	2662					14441													
		STD	0030	-0057	3317	2668	0013720		0044		14446													
		OBS	0030	-0057	33170	2668					14446													
		STD	0050	-0068	3333	2681	0012445		0070		14447													
		OBS	0050	-0068	33330	2681					14447													
		STD	0075	-0056	3360	2702	0010418		0099		14460													
		OBS	0075	-0056	33600	2702					14460													
		STD	0100	-0043	3372	2711	0009548		0124		14472													
		OBS	0100	-0043	33720	2711					14472													
		STD	0125	-0064	3377	2716	0009069		0147		14467													
		OBS	0125	-0064	33770	2716					14467													
		STD	0150	-0008	3390	2724	0008327		0169		14499													
		OBS	0150	-0008	33900	2724					14499													
		STD	0200	0112	3409	2733	0007590		0208		14564													
		OBS	0200	0112	34090	2733					14564													
		STD	0250	0121	3420	2741	0006829		0244		14578													
		OBS	0250	0121	34200	2741					14578													
		STD	0300	0091	3424	2746	0006328		0277		14573													
		OBS	0300	0091	34240	2746					14573													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE	76450N	073270W	260	63	09	28	048	1969	WE2	052	0160						70	7	5	0052	
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						DT	S	19	S06	205	-039	-050	8	09								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C			
		STD	0000	-0154	3208	2583		0021819		0000	14380											
048		OBS	0000	-0154	32080	2583					14380											
		STD	0010	-0156	3218	2591		0021037		0021	14383											
		OBS	0010	-0156	32180	2591					14383											
		STD	0020	-0158	3219	2592		0020947		0042	14383											
		OBS	0020	-0158	32190	2592					14383											
		STD	0030	-0150	3240	2608		0019341		0063	14392											
		OBS	0030	-0150	32400	2608					14392											
		STD	0050	-0111	3286	2645		0015899		0098	14420											
		OBS	0050	-0111	32860	2645					14420											
		STD	0075	-0100	3328	2678		0012702		0134	14435											
		OBS	0075	-0100	33280	2678					14435											
		STD	0100	-0084	3350	2695		0011063		0163	14450											
		OBS	0100	-0084	33500	2695					14450											
		STD	0125	-0069	3362	2704		0010193		0190	14463											
		OBS	0125	-0069	33620	2704					14463											
		STD	0150	-0017	3390	2725		0008283		0213	14495											
		OBS	0150	-0017	33900	2725					14495											

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE	75426N	074100W	260	54	09	28	067	1969	WE2	053	0450						70	7	5	0053	
						WATER		WIND		AIR TEMP. °C												
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						DT	S	00	S00	216	-039	-050	8	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	S C			
		STD	0000	-0150	3130	2519		0027831		0000	14371											
067		OBS	0000	-0150	31300	2519					14371											
		STD	0010	-0150	3200	2576		0022434		0025	14383											
		OBS	0010	-0150	32000	2576					14383											
		STD	0020	-0138	3230	2600		0020146		0046	14394											
		OBS	0020	-0138	32300	2600					14394											
		STD	0030	-0125	3269	2631		0017176		0065	14408											
		OBS	0030	-0125	32690	2631					14408											
		STD	0050	-0128	3282	2642		0016156		0098	14411											
		OBS	0050	-0128	32820	2642					14411											
		STD	0075	-0093	3302	2657		0014716		0137	14435											
		OBS	0075	-0093	33020	2657					14435											
		STD	0100	-0116	3332	2682		0012328		0171	14432											
		OBS	0100	-0116	33320	2682					14432											
		STD	0125	-0102	3370	2712		0009456		0198	14448											
		OBS	0125	-0102	33700	2712					14448											
		STD	0150	-0061	3375	2715		0009225		0221	14472											
		OBS	0150	-0061	33750	2715					14472											
		STD	0200	0076	3400	2728		0008038		0265	14547											
		OBS	0200	0076	34000	2728					14547											
		STD	0250	0022	3404	2734		0007410		0303	14531											
		OBS	0250	0022	34040	2734					14531											
		STD	0300	0045	3422	2747		0006181		0337	14552											
		OBS	0300	0045	34220	2747					14552											
		STD	0400	0024	3432	2757		0005292		0395	14561											
		OBS	0400	0024	34320	2757					14561											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE		76408N	074490W	260	64	09	28	088	1969	WE2	054	0470					01	7	7	0054	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						DT	S	00	S00	216	-034	-050	8	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C					
		STD	0000	-0130	3140	2527	0027101	0000	14382													
088		OBS	0000	-0130	31400	2527			14382													
		STD	0010	-0152	3146	2532	0026585	0027	14374													
		OBS	0010	-0152	31460	2532			14374													
		STD	0020	-0146	3175	2556	0024356	0052	14383													
		OBS	0020	-0146	31750	2556			14383													
		STD	0030	-0133	3208	2582	0021840	0075	14395													
		OBS	0030	-0133	32080	2582			14395													
		STD	0050	-0117	3249	2615	0018719	0116	14412													
		OBS	0050	-0117	32490	2615			14412													
		STD	0075	-0108	3294	2651	0015279	0158	14427													
		OBS	0075	-0108	32940	2651			14427													
		STD	0100	-0102	3317	2669	0013523	0194	14437													
		OBS	0100	-0102	33170	2669			14437													
		STD	0125	-0095	3342	2689	0011622	0226	14448													
		OBS	0125	-0095	33420	2689			14448													
		STD	0150	-0094	3343	2690	0011537	0255	14452													
		OBS	0150	-0094	33430	2690			14452													
		STD	0200	-0072	3394	2730	0007711	0303	14478													
		OBS	0200	-0072	33940	2730			14478													
		STD	0250	-0044	3412	2744	0006453	0338	14502													
		OBS	0250	-0044	34120	2744			14502													
		STD	0300	-0032	3420	2750	0005894	0369	14517													
		OBS	0300	-0032	34200	2750			14517													
		STD	0400	-0008	3430	2757	0005251	0425	14546													
		STD	0500	0015	3433	2758	0005155	0477	14573													
		OBS	0500	0015	34330	2758			14573													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318160	WE		76372N	075360W	260	65	09	28	105	1969	WE2	055	0430					02	7	7	0055	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
						DT	S	23	S04	231	-034	-050	8	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C C					
		STD	0000	-0148	3160	2544	0025525	0000	14377													
105		OBS	0000	-0148	31600	2544			14377													
		STD	0010	-0152	3168	2550	0024892	0025	14377													
		OBS	0010	-0152	31680	2550			14377													
		STD	0020	-0155	3175	2556	0024338	0050	14379													
		OBS	0020	-0155	31750	2556			14379													
		STD	0030	-0150	3237	2606	0019572	0072	14391													
		OBS	0030	-0150	32370	2606			14391													
		STD	0050	-0121	3265	2628	0017480	0109	14412													
		OBS	0050	-0121	32650	2628			14412													
		STD	0075	-0102	3298	2654	0014992	0149	14430													
		OBS	0075	-0102	32980	2654			14430													
		STD	0100	-0090	3330	2679	0012570	0184	14444													
		OBS	0100	-0090	33300	2679			14444													
		STD	0125	-0067	3355	2699	0010736	0213	14463													
		OBS	0125	-0067	33550	2699			14463													
		STD	0150	-0082	3362	2705	0010131	0239	14461													
		OBS	0150	-0082	33620	2705			14461													
		STD	0200	-0068	3391	2728	0007957	0284	14480													
		OBS	0200	-0068	33910	2728			14480													
		STD	0250	-0047	3412	2744	0006439	0320	14501													
		OBS	0250	-0047	34120	2744			14501													
		STD	0300	-0035	3422	2751	0005727	0351	14516													
		OBS	0300	-0035	34220	2751			14516													
		STD	0400	-0028	3431	2758	0005062	0405	14537													
		OBS	0400	-0028	34310	2758			14537													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
318160		WE	76120N	074360W		260	64	09	28	145	1969	WE2	056	027					02	7	7	0056		
					WATER		WIND		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB					WET BULB									
					DT	S	00	500	244	-022					-031	11								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-210°		Σ Δ ρ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH						
145		STD	0000	-0088	3255	2619		0018378		0000	14418													
		OBS	0000	-0088	32550	2619					14418													
		STD	0010	-0102	3262	2625		0017792		0018	14414													
		OBS	0010	-0102	32620	2625					14414													
		STD	0020	-0109	3264	2627		0017612		0036	14413													
		OBS	0020	-0109	32640	2627					14413													
		STD	0030	-0105	3268	2630		0017310		0053	14417													
		OBS	0030	-0105	32680	2630					14417													
		STD	0050	-0097	3312	2665		0013951		0085	14430													
		OBS	0050	-0097	33120	2665					14430													
		STD	0075	-0100	3333	2682		0012319		0117	14436													
		OBS	0075	-0100	33330	2682					14436													
		STD	0100	-0088	3344	2691		0011507		0147	14447													
		OBS	0100	-0088	33440	2691					14447													
		STD	0125	-0120	3355	2701		0010541		0175	14438													
		OBS	0125	-0120	33550	2701					14438													
	STD	0150	-0115	3364	2708		0009856		0200	14446														
	OBS	0150	-0115	33640	2708					14446														
	STD	0200	0002	3395	2728		0007990		0245	14512														
	OBS	0200	0002	33950	2728					14512														
	STD	0250	0043	3406	2735		0007382		0283	14541														
	OBS	0250	0043	34060	2735					14541														

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318160	WE	76170N	074020W	260	64	09	28	166	1969	WE2	057	0420							02	6	8	0057			
						WATER		WIND		AIR TEMP. °C															
						COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		BARO- METER (mba)		DRY BULB		WET BULB		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS	
						DT		S		00		500		255		-022		-031		7		13			

MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ ρ DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH
166		STD	0000	-0145	3250	2616	0018608	0000	14391							
		OBS	0000	-0145	32500	2616			14391							
		STD	0010	-0105	3277	2637	0016633	0018	14415							
		OBS	0010	-0105	32770	2637			14415							
		STD	0020	-0093	3283	2642	0016203	0034	14423							
		OBS	0020	-0093	32830	2642			14423							
		STD	0030	-0089	3311	2664	0014065	0049	14430							
		OBS	0030	-0089	33110	2664			14430							
		STD	0050	-0090	3332	2681	0012443	0076	14436							
		OBS	0050	-0090	33320	2681			14436							
		STD	0075	-0101	3347	2694	0011244	0105	14437							
		OBS	0075	-0101	33470	2694			14437							
		STD	0100	-0088	3360	2704	0010283	0132	14449							
		OBS	0100	-0088	33600	2704			14449							
		STD	0125	-0076	3372	2713	0009402	0157	14461							
		OBS	0125	-0076	33720	2713			14461							
		STD	0150	-0045	3383	2720	0008685	0179	14481							
		OBS	0150	-0045	33830	2720			14481							
		STD	0200	0014	3405	2735	0007295	0219	14519							
		OBS	0200	0014	34050	2735			14519							
		STD	0250	-0009	3414	2744	0006480	0254	14518							
		OBS	0250	-0009	34140	2744			14518							
		STD	0300	0016	3425	2751	0005779	0284	14540							
		OBS	0300	0016	34250	2751			14540							
		STD	0400	-0025	3432	2759	0005003	0338	14538							
		OBS	0400	-0025	34320	2759			14538							

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE	76210N	073240W	260	63	09	28	177	1969	WE2	058	0550					01	6	7			0058
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB										
						DT	S	00	S00	257	-028	-044	7	14								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C	
		STD	0000	-0130	3255	2620		0018260		0000		14398										
177		OBS	0000	-0130	32550	2620						14398										
		STD	0010	-0133	3270	2632		0017093		0018		14401										
		OBS	0010	-0133	32700	2632						14401										
		STD	0020	-0120	3300	2656		0014818		0034		14413										
		OBS	0020	-0120	33000	2656						14413										
		STD	0030	-0075	3341	2688		0011816		0047		14441										
		OBS	0030	-0075	33410	2688						14441										
		STD	0050	-0069	3347	2692		0011371		0070		14448										
		OBS	0050	-0069	33470	2692						14448										
		STD	0075	-0114	3362	2706		0010052		0097		14433										
		OBS	0075	-0114	33620	2706						14433										
		STD	0100	-0035	3381	2718		0008897		0121		14477										
		OBS	0100	-0035	33810	2718						14477										
		STD	0125	0000	3382	2718		0008981		0143		14497										
		OBS	0125	0000	33820	2718						14497										
		STD	0150	0002	3395	2728		0007998		0164		14504										
		OBS	0150	0002	33950	2728						14504										
		STD	0200	-0010	3406	2737		0007091		0202		14508										
		OBS	0200	-0010	34060	2737						14508										
		STD	0250	-0008	3416	2745		0006333		0235		14519										
		OBS	0250	-0008	34160	2745						14519										
		STD	0300	0007	3424	2751		0005803		0266		14535										
		OBS	0300	0007	34240	2751						14535										
		STD	0400	-0020	3428	2756		0005334		0321		14540										
		OBS	0400	-0020	34280	2756						14540										
		STD	0500	0022	3435	2759		0005049		0373		14577										
		OBS	0500	0022	34350	2759						14577										

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INDEX	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318160	WE	76250N	072470W	260	62	09	28	189	1969	WE2	059	0530					01	6	7			0059
						WATER		WIND		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB										
						DT	S	00	S00	260	-028	-044	7	14								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ _t		Σ Δ D DYN. M. x 10 ³		SOUND VELOCITY		O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S C	
		STD	0000	-0080	3302	2656		0014801		0000		14428										
189		OBS	0000	-0080	33020	2656						14428										
		STD	0010	-0088	3302	2657		0014769		0015		14426										
		OBS	0010	-0088	33020	2657						14426										
		STD	0020	-0087	3305	2659		0014536		0029		14429										
		OBS	0020	-0087	33050	2659						14429										
		STD	0030	-0085	3310	2663		0014155		0044		14432										
		OBS	0030	-0085	33100	2663						14432										
		STD	0050	-0092	3346	2692		0011364		0069		14437										
		OBS	0050	-0092	33460	2692						14437										
		STD	0075	-0088	3366	2708		0009836		0096		14446										
		OBS	0075	-0088	33660	2708						14446										
		STD	0100	-0062	3377	2716		0009086		0119		14464										
		OBS	0100	-0062	33770	2716						14464										
		STD	0125	-0030	3386	2722		0008531		0141		14484										
		OBS	0125	-0030	33860	2722						14484										
		STD	0150	0037	3403	2733		0007578		0162		14521										
		OBS	0150	0037	34030	2733						14521										
		STD	0200	0067	3415	2740		0006845		0198		14545										
		OBS	0200	0067	34150	2740						14545										
		STD	0250	0053	3420	2745		0006381		0231		14547										
		OBS	0250	0053	34200	2745						14547										
		STD	0300	0045	3430	2754		0005575		0261		14553										
		OBS	0300	0045	34300	2754						14553										
		STD	0400	0000	3433	2759		0005071		0314		14550										
		OBS	0400	0000	34330	2759						14550										
		STD	0500	0066	3444	2764		0004667		0363		14598										
		OBS	0500	0066	34440	2764						14598										

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	PORT INDIC	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CRUISE CODE	IO. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
318160	WE		76290N	072070W		260	62	09	28	205	1969	WE2	060	0370						02	6	7	0060			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB														
						0T	S	00	500	265	-022	-028	7	12												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH									
205		STD	0000	-0064	3300	2654	0015009		0000	14436																
		OBS	0000	-0064	33000	2654				14436																
		STD	0010	-0070	3306	2659	0014523		0015	14435																
		OBS	0010	-0070	33060	2659				14435																
		STD	0020	-0071	3307	2660	0014438		0029	14437																
		OBS	0020	-0071	33070	2660				14437																
		STD	0030	-0073	3309	2662	0014273		0044	14438																
		OBS	0030	-0073	33090	2662				14438																
		STD	0050	-0086	3345	2691	0011461		0069	14440																
		OBS	0050	-0086	33450	2691				14440																
		STD	0075	-0050	3355	2698	0010825		0097	14462																
		OBS	0075	-0050	33550	2698				14462																
		STD	0100	-0020	3374	2712	0009499		0123	14483																
		OBS	0100	-0020	33740	2712				14483																
		STD	0125	0043	3386	2719	0008905		0146	14517																
		OBS	0125	0043	33860	2719				14517																
		STD	0150	0040	3392	2724	0008431		0167	14521																
		OBS	0150	0040	33920	2724				14521																
		STD	0200	0115	3407	2731	0007762		0208	14565																
		OBS	0200	0115	34070	2731				14565																
		STD	0250	0140	3420	2740	0006964		0245	14586																
		OBS	0250	0140	34200	2740				14586																
		STD	0300	0138	3434	2751	0005905		0277	14596																
		OBS	0300	0138	34340	2751				14596																

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	PORT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRST CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
	318160	WE	76339N	071310W		260	61	09	28	217	1969	WE2	061	0440						02	6	7	0061
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB											
						DT	S	00	500	265	-022	-028	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \theta$ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	STATION NO.					
217		STD	0000	-0040	3290	2645	0015864		0000	14445													
		OBS	0000	-0040	32900	2645				14445													
		STD	0010	-0050	3300	2654	0015056		0015	14444													
		OBS	0010	-0050	33000	2654				14444													
		STD	0020	-0055	3303	2656	0014803		0030	14443													
		OBS	0020	-0055	33030	2656				14443													
		STD	0030	-0057	3307	2660	0014485		0045	14445													
		OBS	0030	-0057	33070	2660				14445													
		STD	0050	-0070	3318	2669	0013586		0073	14444													
		OBS	0050	-0070	33180	2669				14444													
		STD	0075	-0035	3345	2689	0011652		0105	14468													
		OBS	0075	-0035	33450	2689				14468													
		STD	0100	-0001	3363	2702	0010428		0132	14490													
		OBS	0100	-0001	33630	2702				14490													
		STD	0125	0011	3371	2708	0009875		0158	14501													
		OBS	0125	0011	33710	2708				14501													
		STD	0150	0042	3382	2715	0009202		0181	14521													
		OBS	0150	0042	33820	2715				14521													
		STD	0200	0100	3400	2726	0008192		0225	14558													
		OBS	0200	0100	34000	2726				14558													
		STD	0250	0144	3412	2733	0007598		0264	14587													
		OBS	0250	0144	34120	2733				14587													
		STD	0300	0150	3420	2739	0007051		0301	14599													
		OBS	0300	0150	34200	2739				14599													
		STD	0400	0154	3434	2750	0006055		0367	14619													
		OBS	0400	0154	34340	2750				14619													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRAFT METER	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	76388N	070523W		260	60	09	28	230	1969	WE2	062	0210						73	X	9	0062
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB											
						DT	S	00	500	272	-022	-028	7	10									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH						
230		STO	0000	-0010	3209	2579	0022182		0000	14448													
		OBS	0000	-0010	32090	2579				14448													
		STO	0010	-0011	3216	2584	0021637		0022	14450													
		OBS	0010	-0011	32160	2584				14450													
		STO	0020	-0006	3225	2591	0020965		0043	14455													
		OBS	0020	-0006	32250	2591				14455													
		STO	0030	-0004	3260	2620	0018295		0063	14463													
		OBS	0030	-0004	32600	2620				14463													
		STO	0050	-0015	3280	2636	0016711		0098	14464													
		OBS	0050	-0015	32800	2636				14464													
		STO	0075	-0032	3308	2659	0014490		0137	14464													
		OBS	0075	-0032	33080	2659				14464													
		STO	0100	-0028	3326	2674	0013124		0171	14472													
		OBS	0100	-0028	33260	2674				14472													
	STO	0125	-0023	3347	2690	0011537		0202	14482														
	OBS	0125	-0023	33470	2690				14482														
	STO	0150	0005	3365	2704	0010296		0229	14501														
	OBS	0150	0005	33650	2704				14501														
	STO	0200	0054	3385	2717	0009042		0278	14535														
	OBS	0200	0054	33850	2717				14535														

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT DIRECTION	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
						10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT		
318160		WE	76202N	070100W		260	60	09	30	158	1969	WE2	063	0200					71	X	9		0063	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB												
						DT	S	20	509	233	-011	-017	4	10										
MESSNGR TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY		O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH				
158			STD	0000	-0020	3175	2552		0024745		0000	14439												
			OBS	0000	-0020	31750	2552					14439												
			STD	0010	-0028	3180	2556		0024326		0025	14437												
			OBS	0010	-0028	31800	2556					14437												
			STD	0020	-0027	3188	2562		0023712		0049	14440												
			OBS	0020	-0027	31880	2562					14440												
			STD	0030	-0016	3222	2589		0021149		0071	14452												
			OBS	0030	-0016	32220	2589					14452												
			STD	0050	-0008	3253	2614		0018804		0111	14463												
			OBS	0050	-0008	32530	2614					14463												
			STD	0075	-0016	3303	2655		0014942		0153	14471												
			OBS	0075	-0016	33030	2655					14471												
			STD	0100	-0016	3327	2674		0013102		0188	14478												
			OBS	0100	-0016	33270	2674					14478												
		STD	0125	-0004	3348	2690		0011551		0219	14491													
		OBS	0125	-0004	33480	2690					14491													
		STD	0150	-0002	3356	2697		0010946		0247	14497													
		OBS	0150	-0002	33560	2697					14497													
		STD	0200	0007	3364	2703		0010373		0300	14510													
		OBS	0200	0007	33640	2703					14510													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY ROSTER	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
318160	WE		76140N	070460W		260	60	09	30	173	1969	WE2	064	0610					02	X	9	0064
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB										
						DT	S	14	S15	223	-011	-017	7	15								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
173		STD	0000	-0080	3295	2651	0015337		0000	14427												
		OBS	0000	-0080	32950	2651				14427												
		STD	0010	-0083	3297	2653	0015168		0015	14428												
		OBS	0010	-0083	32970	2653				14428												
		STD	0020	-0087	3300	2655	0014920		0030	14428												
		OBS	0020	-0087	33000	2655				14428												
		STD	0030	-0089	3305	2659	0014524		0045	14430												
		OBS	0030	-0089	33050	2659				14430												
		STD	0050	-0075	3336	2684	0012190		0072	14444												
		OBS	0050	-0075	33360	2684				14444												
		STD	0075	-0040	3355	2698	0010867		0101	14467												
		OBS	0075	-0040	33550	2698				14467												
		STD	0100	-0002	3363	2702	0010424		0127	14490												
		OBS	0100	-0002	33630	2702				14490												
		STD	0125	0028	3374	2710	0009736		0152	14509												
		OBS	0125	0028	33740	2710				14509												
		STD	0150	0054	3385	2717	0009043		0176	14526												
		OBS	0150	0054	33850	2717				14526												
		STD	0200	0102	3399	2725	0008281		0219	14558												
		OBS	0200	0102	33990	2725				14558												
	STD	0250	0151	3417	2737	0007272		0258	14591													
	OBS	0250	0151	34170	2737				14591													
	STD	0300	0170	3428	2744	0006600		0293	14609													
	OBS	0300	0170	34280	2744				14609													
	STD	0400	0031	3431	2755	0005412		0353	14564													
	OBS	0400	0031	34310	2755				14564													
	STD	0500	-0002	3433	2759	0005049		0405	14566													
	OBS	0500	-0002	34330	2759				14566													
	STD	0600	0080	3443	2762	0004854		0455	14621													
	OBS	0600	0080	34430	2762				14621													
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB										
						DT	S	14	S14	220	-003	-014	6	14								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELDCITY	D ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C				
187		STD	0000	-0070	3290	2646	0015754		0000	14431												
		OBS	0000	-0070	32900	2646				14431												
		STD	0010	-0072	3292	2648	0015589		0016	14432												
		OBS	0010	-0072	32920	2648				14432												
		STD	0020	-0074	3294	2650	0015423		0031	14433												
		OBS	0020	-0074	32940	2650				14433												
		STD	0030	-0071	3330	2679	0012673		0045	14441												
		OBS	0030	-0071	33300	2679				14441												
		STD	0050	-0089	3349	2695	0011145		0069	14439												
		OBS	0050	-0089	33490	2695				14439												
		STD	0075	-0090	3365	2708	0009905		0095	14445												
		OBS	0075	-0090	33650	2708				14445												
		STD	0100	-0068	3378	2717	0008985		0119	14461												
		OBS	0100	-0068	33780	2717				14461												
		STD	0125	-0023	3389	2724	0008336		0141	14488												
		OBS	0125	-0023	33890	2724				14488												
		STD	0150	-0003	3397	2730	0007820		0161	14502												
		OBS	0150	-0003	33970	2730				14502												
		STD	0200	-0045	3405	2738	0006994		0198	14492												
		OBS	0200	-0045	34050	2738				14492												
		STD	0250	-0032	3414	2745	0006361		0231	14508												
		OBS	0250	-0032	34140	2745				14508												
		STD	0300	0040	3425	2750	0005923		0262	14550												
		OBS	0300	0040	34250	2750				14550												
		STD	0400	-0013	3430	2757	0005222		0318	14544												
		OBS	0400	-0013	34300	2757				14544												
		STD	0500	-0007	3433	2759	0005018		0369	14563												
		OBS	0500	-0007	34330	2759				14563												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT 1/10	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT			
318160	WE		76040N	071550W		260	61	09	30	198	1969	WE2 066	0430						02	6	8	0066				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB													
						DT	S	14	S14	218	-003	-014	6	13												
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	ND ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE								
198		STD	0000	-0070	3300	2654	0014988		0000	14433																
		OBS	0000	-0070	33000	2654				14433																
		STD	0010	-0080	3304	2658	0014642		0015	14430																
		OBS	0010	-0080	33040	2658				14430																
		STD	0020	-0086	3305	2659	0014540		0029	14429																
		OBS	0020	-0086	33050	2659				14429																
		STD	0030	-0089	3313	2666	0013912		0044	14431																
		OBS	0030	-0089	33130	2666				14431																
		STD	0050	-0089	3353	2698	0010838		0068	14440																
		OBS	0050	-0089	33530	2698				14440																
		STD	0075	-0087	3365	2708	0009916		0094	14446																
		OBS	0075	-0087	33650	2708				14446																
		STD	0100	-0072	3376	2716	0009122		0118	14459																
		OBS	0100	-0072	33760	2716				14459																
		STD	0125	-0042	3394	2729	0007867		0139	14480																
		OBS	0125	-0042	33940	2729				14480																
		STD	0150	0030	3404	2734	0007463		0159	14518																
		OBS	0150	0030	34040	2734				14518																
		STD	0200	0035	3412	2740	0006881		0194	14530																
		OBS	0200	0035	34120	2740				14530																
		STD	0250	-0010	3417	2746	0006247		0227	14518																
		OBS	0250	-0010	34170	2746				14518																
		STD	0300	-0023	3423	2752	0005714		0257	14521																
		OBS	0300	-0023	34230	2752				14521																
		STD	0400	-0014	3432	2759	0005065		0311	14543																
		OBS	0400	-0014	34320	2759				14543																
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB													
						DT	S	14	S14	218	-003	-014	6	12												
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta$ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	ND ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S CODE								
217		STD	0000	-0070	3280	2638	0016520		0000	14430																
		OBS	0000	-0070	32800	2638				14430																
		STD	0010	-0065	3290	2646	0015767		0016	14435																
		OBS	0010	-0065	32900	2646				14435																
		STD	0020	-0088	3302	2657	0014763		0031	14428																
		OBS	0020	-0088	33020	2657				14428																
		STD	0030	-0080	3325	2675	0013023		0045	14437																
		OBS	0030	-0080	33250	2675				14437																
		STD	0050	-0097	3357	2701	0010504		0069	14436																
		OBS	0050	-0097	33570	2701				14436																
		STD	0075	-0095	3370	2712	0009505		0094	14443																
		OBS	0075	-0095	33700	2712				14443																
		STD	0100	-0050	3385	2722	0008525		0116	14470																
		OBS	0100	-0050	33850	2722				14470																
		STD	0125	-0011	3391	2725	0008241		0137	14493																
		OBS	0125	-0011	33910	2725				14493																
		STD	0150	0030	3405	2735	0007387		0157	14518																
		OBS	0150	0030	34050	2735				14518																
		STD	0200	0048	3415	2742	0006729		0192	14536																
		OBS	0200	0048	34150	2742				14536																
		STD	0250	0033	3424	2750	0005957		0224	14539																
		OBS	0250	0033	34240	2750				14539																
		STD	0300	0008	3426	2753	0005657		0253	14536																
		OBS	0300	0008	34260	2753				14536																

TABLE III.—Continued

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
						10"	1"	MO	DAY	HR.1/10																
318160		WE	75530N	073050W		260	53	09	30	229	1969	WE2	068	0340						02	6	18	0068			
						WATER		WIND		AIR TEMP. °C																
						CDLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	BARD- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						DT	S	14	S20	204		-003	-014	6	12											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C								
229		STD	0000	-0100	3275	2635	0016807		0000	14415																
		OBS	0000	-0100	32750	2635				14415																
		STD	0010	-0103	3278	2638	0016562		0017	14416																
		OBS	0010	-0103	32780	2638				14416																
		STD	0020	-0100	3292	2649	0015491		0033	14421																
		OBS	0020	-0100	32920	2649				14421																
		STD	0030	-0060	3315	2666	0013862		0047	14444																
		OBS	0030	-0060	33150	2666				14444																
		STD	0050	-0087	3352	2697	0010922		0072	14440																
		OBS	0050	-0087	33520	2697				14440																
		STD	0075	-0100	3365	2708	0009869		0098	14440																
		OBS	0075	-0100	33650	2708				14440																
		STD	0100	-0083	3376	2716	0009079		0122	14454																
		OBS	0100	-0083	33760	2716				14454																
		STD	0125	-0030	3388	2724	0008379		0144	14484																
		OBS	0125	-0030	33880	2724				14484																
		STD	0150	0002	3400	2732	0007617		0164	14505																
		OBS	0150	0002	34000	2732				14505																
		STD	0200	0038	3413	2741	0006822		0200	14531																
		OBS	0200	0038	34130	2741				14531																
		STD	0250	0044	3420	2746	0006326		0233	14543																
		OBS	0250	0044	34200	2746				14543																
		STD	0300	0007	3427	2753	0005576		0262	14536																
		OBS	0300	0007	34270	2753				14536																

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDICATOR	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
318160		WE	75480N	073400W		260	53	10	01	002	1969	WE2	069	0350						02	X	9	0069	
						WATER		WIND		BARD- METER (mb)		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						CDLDR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
						DT	S	22	S20	200	000	-006	6	12										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C						
002		STD	0000	-0090	3285	2643	0016071		0000	14421														
		OBS	0000	-0090	32850	2643				14421														
		STD	0010	-0093	3290	2647	0015672		0016	14422														
		OBS	0010	-0093	32900	2647				14422														
		STD	0020	-0085	3290	2647	0015693		0032	14428														
		OBS	0020	-0085	32900	2647				14428														
		STD	0030	-0089	3346	2692	0011384		0045	14435														
		OBS	0030	-0089	33460	2692				14435														
		STD	0050	-0098	3363	2706	0010042		0067	14437														
		OBS	0050	-0098	33630	2706				14437														
		STD	0075	-0088	3370	2712	0009530		0091	14447														
		OBS	0075	-0088	33700	2712				14447														
		STD	0100	-0060	3381	2719	0008789		0114	14465														
		OBS	0100	-0060	33810	2719				14465														
		STD	0125	-0022	3392	2727	0008112		0135	14489														
		OBS	0125	-0022	33920	2727				14489														
		STD	0150	0040	3406	2735	0007367		0154	14523														
		OBS	0150	0040	34060	2735				14523														
		STD	0200	0046	3414	2741	0006793		0190	14535														
		OBS	0200	0046	34140	2741				14535														
		STD	0250	0028	3421	2748	0006155		0222	14536														
		OBS	0250	0028	34210	2748				14536														
		STD	0300	0010	3425	2752	0005745		0252	14537														
		OBS	0300	0010	34250	2752				14537														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES	NOOC STATION NUMBER						
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT				PER	SEA	TYPE	AMT		
318160	WE	75360N	072540W	260	52	10	01	018	1969	WE2	070	0480						02	X	9	0070					
		WATER COLOR CODE	WIND TRANS. mi	DIR.	SPEED OF FORCE	BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
							DRY BULB	WET BULB																		
							DT	S				22	S20	196	000	-006	7	13								
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^s	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	NOOC									
018		STD	0000	-0093	3284	2642	0016138	0000	14420																	
		OBS	0000	-0093	32840	2642			14420																	
		STD	0010	-0100	3287	2645	0015881	0016	14419																	
		OBS	0010	-0100	32870	2645			14419																	
		STD	0020	-0103	3328	2678	0012722	0030	14425																	
		OBS	0020	-0103	33280	2678			14425																	
		STD	0030	-0115	3347	2694	0011222	0042	14423																	
		OBS	0030	-0115	33470	2694			14423																	
		STD	0050	-0126	3361	2706	0010104	0064	14423																	
		OBS	0050	-0126	33610	2706			14423																	
		STD	0075	-0096	3370	2712	0009501	0088	14443																	
		OBS	0075	-0096	33700	2712			14443																	
		STD	0100	-0080	3375	2715	0009167	0111	14455																	
		OBS	0100	-0080	33750	2715			14455																	
		STD	0125	-0003	3394	2727	0008052	0133	14498																	
		OBS	0125	-0003	33940	2727			14498																	
		STD	0150	0074	3402	2730	0007871	0153	14538																	
		OBS	0150	0074	34020	2730			14538																	
		STD	0200	0142	3421	2740	0006891	0190	14579																	
		OBS	0200	0142	34210	2740			14579																	
		STD	0250	0132	3427	2746	0006378	0223	14584																	
		OBS	0250	0132	34270	2746			14584																	
		STD	0300	-0007	3427	2754	0005497	0253	14529																	
		OBS	0300	-0007	34270	2754			14529																	
		STD	0400	-0014	3431	2758	0005141	0306	14543																	
		OBS	0400	-0014	34310	2758			14543																	
		WATER COLOR CODE	WIND TRANS. mi	DIR.	SPEED OF FORCE	BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
							DRY BULB	WET BULB																		
							DT	S				18	S10	192	-011	-022	7	13								
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^s	$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	NOOC									
031		STD	0000	-0095	3295	2651	0015289	0000	14420																	
		OBS	0000	-0095	32950	2651			14420																	
		STD	0010	-0096	3297	2653	0015126	0015	14422																	
		OBS	0010	-0096	32970	2653			14422																	
		STD	0020	-0096	3300	2655	0014890	0030	14424																	
		OBS	0020	-0096	33000	2655			14424																	
		STD	0030	-0100	3335	2684	0012190	0044	14429																	
		OBS	0030	-0100	33350	2684			14429																	
		STD	0050	-0107	3356	2701	0010547	0066	14432																	
		OBS	0050	-0107	33560	2701			14432																	
		STD	0075	-0094	3367	2709	0009738	0092	14443																	
		OBS	0075	-0094	33670	2709			14443																	
		STD	0100	-0048	3377	2716	0009145	0115	14470																	
		OBS	0100	-0048	33770	2716			14470																	
		STD	0125	-0008	3388	2723	0008484	0137	14494																	
		OBS	0125	-0008	33880	2723			14494																	
		STD	0150	0049	3398	2728	0008027	0158	14526																	
		OBS	0150	0049	33980	2728			14526																	
		STD	0200	0050	3416	2742	0006665	0195	14537																	
		OBS	0200	0050	34160	2742			14537																	
		STD	0250	0031	3419	2746	0006325	0227	14537																	
		OBS	0250	0031	34190	2746			14537																	
		STD	0300	0004	3425	2752	0005710	0257	14534																	
		OBS	0300	0004	34250	2752			14534																	
		STD	0400	-0007	3429	2756	0005333	0313	14546																	
		OBS	0400	-0007	34290	2756			14546																	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. HO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	75480N	071380W		260	51	10	01	044	1969	WE2	072	0410					70	X	7	0072	
				COLOR CODE	WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS									
					TRANS. (m)	DIR.	SPEED OR FORCE	DRY RULR		WET RULR													
					DT	S	18	S10		187	-011					-022	7	13					
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST C						
044		STD	0000	-0062	3290	2646	0015782	0000	14435														
		OBS	0000	-0062	32900	2646			14435														
		STD	0010	-0067	3291	2647	0015683	0016	14435														
		OBS	0010	-0067	32910	2647			14435														
		STD	0020	-0068	3301	2655	0014909	0031	14437														
		OBS	0020	-0068	33010	2655			14437														
		STD	0030	-0065	3322	2672	0013307	0045	14443														
		OBS	0030	-0065	33220	2672			14443														
		STD	0050	-0080	3352	2697	0010947	0069	14444														
		OBS	0050	-0080	33520	2697			14444														
		STD	0075	-0089	3363	2706	0010062	0096	14445														
		OBS	0075	-0089	33630	2706			14445														
		STD	0100	-0074	3378	2718	0008961	0119	14458														
		OBS	0100	-0074	33780	2718			14458														
		STD	0125	-0035	3394	2729	0007898	0141	14483														
		OBS	0125	-0035	33940	2729			14483														
		STD	0150	-0012	3395	2729	0007927	0160	14498														
		OBS	0150	-0012	33950	2729			14498														
		STD	0200	-0017	3401	2734	0007435	0199	14505														
		OBS	0200	-0017	34010	2734			14505														
		STD	0250	0020	3420	2747	0006185	0233	14532														
		OBS	0250	0020	34200	2747			14532														
		STD	0300	-0014	3423	2751	0005762	0263	14526														
		OBS	0300	-0014	34230	2751			14526														
		STD	0400	-0015	3429	2756	0005287	0318	14543														
		OBS	0400	-0015	34290	2756			14543														

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
						10"	1"	MO		DAY	HRL/1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318160	WE	75550N	071100W	260	51	10	01	058	1969	WE2	073	0410						01	X	7	0073		
				COLOR CODE	WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS									
					TRANS. (m)	DIR.	SPEED OR FORCE			DRY RULR	WET RULR												
				DT	S	19	S05	179	-011	-022	5	13											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ DYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₃ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	ST C						
058		STD	0000	-0073	3292	2648	0015591	0000	14430														
		OBS	0000	-0073	32920	2648			14430														
		STD	0010	-0074	3294	2650	0015429	0016	14432														
		OBS	0010	-0074	32940	2650			14432														
		STD	0020	-0075	3300	2655	0014960	0031	14434														
		OBS	0020	-0075	33000	2655			14434														
		STD	0030	-0063	3311	2663	0014156	0045	14443														
		OBS	0030	-0063	33110	2663			14443														
		STD	0050	-0069	3346	2692	0011447	0071	14448														
		OBS	0050	-0069	33460	2692			14448														
		STD	0075	-0068	3358	2701	0010523	0098	14454														
		OBS	0075	-0068	33580	2701			14454														
		STD	0100	-0037	3372	2711	0009574	0123	14475														
		OBS	0100	-0037	33720	2711			14475														
		STD	0125	0026	3385	2719	0008888	0147	14510														
		OBS	0125	0026	33850	2719			14510														
		STD	0150	0053	3393	2724	0008429	0168	14527														
		OBS	0150	0053	33930	2724			14527														
		STD	0200	0075	3406	2733	0007577	0208	14547														
		OBS	0200	0075	34060	2733			14547														
		STD	0250	0070	3416	2741	0006791	0244	14555														
		OBS	0250	0070	34160	2741			14555														
		STD	0300	0045	3422	2747	0006181	0277	14552														
		OBS	0300	0045	34220	2747			14552														
		STD	0400	-0012	3428	2755	0005380	0334	14544														
		OBS	0400	-0012	34280	2755			14544														

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC		
CTRY	ID.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	OBS.	DIR.	HGT	PER	SEA	TYPE	AMT	STATION
CODE	NO.											NO.	NUMBER	BOTTOM	OF	S'MPL'S				CODE		NUMBER	
318160	WE		76010N	070480W		260	60	10	01	065	1969	WE2	074		0490						02	7 7	0074
						WATER		WIND				AIR TEMP. °C											
						COLOR	TRANS.	DIR.	SPEED	BARO-	DRY		WET		VIS.								
						CODE	(m)		OR	METER	BULB		BULB		CODE								
						DT	S	19	S05	179	-011	-022	9	13									
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T																	
TIME	NO.	TYPE																					
HR 1/10																							
		STD	0000	-0074	3291	2647																	
065		OBS	0000	-0074	32910	2647																	
		STD	0010	-0081	3296	2652																	
		OBS	0010	-0081	32960	2652																	
		STD	0020	-0081	3307	2661																	
		OBS	0020	-0081	33070	2661																	
		STD	0030	-0070	3327	2676																	
		OBS	0030	-0070	33270	2676																	
		STD	0050	-0086	3350	2695																	
		OBS	0050	-0086	33500	2695																	
		STD	0075	-0079	3364	2706																	
		OBS	0075	-0079	33640	2706																	
		STD	0100	-0053	3374	2714																	
		OBS	0100	-0053	33740	2714																	
		STD	0125	-0003	3385	2720																	
		OBS	0125	-0003	33850	2720																	
		STD	0150	0040	3390	2722																	
		OBS	0150	0040	33900	2722																	
		STD	0200	0014	3409	2739																	
		OBS	0200	0014	34090	2739																	
		STD	0250	0038	3415	2742																	
		OBS	0250	0038	34150	2742																	
		STD	0300	0029	3421	2747																	
		OBS	0300	0029	34210	2747																	
		STD	0400	-0017	3427	2755																	
		OBS	0400	-0017	34270	2755																	

REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE			WEA-	CLOUD	NODC			
CTRY	ID.	CODE	1/10	1/10	INDIC	SQUARE	10"	1"	MO	DAY	HR.1/10	CRUISE	STATION	TO	DEPTH	OBS.	DIR.	HGT	PER	SEA	TYPE	AMT	STATION
CODE	NO.											NO.	NUMBER	BOTTOM	OF	S'MPL'S						NUMBER	
318160	WE		75540N	070240W		260	50	10	01	077	1969	WE2	075		0530						01	7 5	0075
						WATER		WIND				AIR TEMP. °C											
						COLOR	TRANS.	DIR.	SPEED	BARO-	DRY		WET		VIS.								
						CODE	(m)		OR	METER	BULB		BULB		CODE								
						DT	S	19	S05	179	-011	-022	9	14									
MESSAGE	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T																	
TIME	NO.	TYPE																					
HR 1/10																							
		STD	0000	-0090	3297	2653																	
077		OBS	0000	-0090	32970	2653																	
		STD	0010	-0089	3315	2667																	
		OBS	0010	-0089	33150	2667																	
		STD	0020	-0110	3345	2692																	
		OBS	0020	-0110	33450	2692																	
		STD	0030	-0108	3349	2695																	
		OBS	0030	-0108	33490	2695																	
		STD	0050	-0108	3357	2702																	
		OBS	0050	-0108	33570	2702																	
		STD	0075	-0039	3369	2709																	
		OBS	0075	-0039	33690	2709																	
		STD	0100	0003	3383	2718																	
		OBS	0100	0003	33830	2718																	
		STD	0125	0043	3387	2719																	
		OBS	0125	0043	33870	2719																	
		STD	0150	0050	3394	2725																	
		OBS	0150	0050	33940	2725																	
		STD	0200	0130	3415	2736																	
		OBS	0200	0130	34150	2736																	
		STD	0250	0052	3420	2745																	
		OBS	0250	0052	34200	2745																	
		STD	0300	0054	3424	2748																	
		OBS	0300	0054	34240	2748																	
		STD	0400	0006	3430	2756																	
		OBS	0400	0006	34300	2756																	
		STD	0500	-0007	3433	2759																	
		OBS	0500	-0007	34330	2759																	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318160		WE	75460N	070420W	260	50	10	01	098	1969	WE2	076		0450							70	7	7	0076
							WATER		WIND				AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE										
							OT	S	22	511	169	-019	-028	9	13									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S						
	098	STD	0000	-0078	3300	2655	0014961		0000	14429														
		OBS	0000	-0078	33000	2655				14429														
		STD	0010	-0085	3305	2659	0014549		0015	14428														
		OBS	0010	-0085	33050	2659				14428														
		STD	0020	-0080	3330	2679	0012645		0028	14436														
		OBS	0020	-0080	33300	2679				14436														
		STD	0030	-0096	3352	2697	0010901		0040	14433														
		OBS	0030	-0096	33520	2697				14433														
		STD	0050	-0100	3363	2706	0010035		0061	14436														
		OBS	0050	-0100	33630	2706				14436														
		STD	0075	-0070	3374	2714	0009292		0085	14456														
		OBS	0075	-0070	33740	2714				14456														
		STD	0100	0002	3386	2721	0008691		0108	14495														
		OBS	0100	0002	33860	2721				14495														
		STD	0125	0032	3392	2724	0008388		0129	14513														
		OBS	0125	0032	33920	2724				14513														
		STD	0150	0045	3405	2734	0007472		0149	14525														
		OBS	0150	0045	34050	2734				14525														
		STD	0200	0036	3410	2738	0007039		0185	14530														
		OBS	0200	0036	34100	2738				14530														
		STD	0250	-0030	3414	2745	0006371		0219	14509														
		OBS	0250	-0030	34140	2745				14509														
		STD	0300	-0027	3422	2751	0005769		0249	14519														
		OBS	0300	-0027	34220	2751				14519														
		STD	0400	-0017	3431	2758	0005124		0303	14542														
		OBS	0400	-0017	34310	2758				14542														

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
318160		WE	75405N	071070W	260	51	10	01	102	1969	WE2	077		0480						70	7	7	0077	
							WATER		WIND				AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE										
							OT	S	22	511	169	-019	-028	9	13									
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _θ		Σ Δ σ OYN. M. x 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - at/l	TOTAL-P μg - at/l	NO ₂ -N μg - at/l	NO ₃ -N μg - at/l	SiO ₄ -Si μg - at/l	pH	S						
	102	STD	0000	-0096	3284	2642	0016129		0000	14418														
		OBS	0000	-0096	32840	2642				14418														
		STD	0010	-0100	3290	2647	0015651		0016	14419														
		OBS	0010	-0100	32900	2647				14419														
		STD	0020	-0085	3320	2671	0013394		0030	14432														
		OBS	0020	-0085	33200	2671				14432														
		STD	0030	-0129	3350	2697	0010950		0043	14417														
		OBS	0030	-0129	33500	2697				14417														
		STD	0050	-0126	3357	2702	0010411		0064	14423														
		OBS	0050	-0126	33570	2702				14423														
		STD	0075	-0112	3365	2708	0009829		0089	14435														
		OBS	0075	-0112	33650	2708				14435														
		STD	0100	-0121	3374	2716	0009097		0113	14436														
		OBS	0100	-0121	33740	2716				14436														
		STD	0125	-0018	3388	2723	0008436		0135	14490														
		OBS	0125	-0018	33880	2723				14490														
		STD	0150	0064	3400	2729	0007963		0155	14533														
		OBS	0150	0064	34000	2729				14533														
		STD	0200	0109	3412	2735	0007343		0194	14563														
		OBS	0200	0109	34120	2735				14563														
		STD	0250	0144	3430	2747	0006238		0228	14590														
		OBS	0250	0144	34300	2747				14590														
		STD	0300	0080	3430	2752	0005800		0258	14569														
		OBS	0300	0080	34300	2752				14569														
		STD	0400	0025	3433	2757	0005223		0313	14561														
		OBS	0400	0025	34330	2757				14561														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE	75320N	071360W	260	51	10	01	129	1969	WE2	078	0520						02	7	7		0078	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbal)	DRY BULB	WET BULB											
						DT	S	22	S12	159	-008	-019	9	14									
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
129		STD	0000	-0090	3275	2635	0016838		0000	14420													
		OBS	0000	-0090	32750	2635				14420													
		STD	0010	-0093	3285	2643	0016056		0016	14422													
		OBS	0010	-0093	32850	2643				14422													
		STD	0020	-0118	3337	2686	0011986		0030	14419													
		OBS	0020	-0118	33370	2686				14419													
		STD	0030	-0125	3345	2693	0011345		0042	14418													
		OBS	0030	-0125	33450	2693				14418													
		STD	0050	-0144	3355	2701	0010512		0064	14414													
		OBS	0050	-0144	33550	2701				14414													
		STD	0075	-0132	3363	2707	0009918		0090	14425													
		OBS	0075	-0132	33630	2707				14425													
		STD	0100	-0135	3370	2713	0009358		0114	14429													
		OBS	0100	-0135	33700	2713				14429													
		STD	0125	-0060	3384	2722	0008551		0136	14470													
		OBS	0125	-0060	33840	2722				14470													
		STD	0150	0036	3395	2726	0008180		0157	14520													
		OBS	0150	0036	33950	2726				14520													
		STD	0200	0110	3414	2737	0007198		0195	14564													
		OBS	0200	0110	34140	2737				14564													
		STD	0250	0146	3425	2743	0006631		0230	14590													
		OBS	0250	0146	34250	2743				14590													
		STD	0300	0170	3437	2751	0005922		0261	14610													
		OBS	0300	0170	34370	2751				14610													
		STD	0400	0230	3452	2758	0005334		0318	14655													
		OBS	0400	0230	34520	2758				14655													
		STD	0500	0140	3452	2765	0004620		0367	14632													
		OBS	0500	0140	34520	2765				14632													

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE NO.	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160	WE	75240N	070520W	260	50	10	01	144	1969	WE2	079	0540						02	7	7		0079	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbal)	DRY BULB	WET BULB											
						DT	S	22	S06	152	-011	-017	9	14									
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t^0		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C					
144		STD	0000	-0078	3277	2636	0016723		0000	14426													
		OBS	0000	-0078	32770	2636				14426													
		STD	0010	-0085	3278	2637	0016618		0017	14424													
		OBS	0010	-0085	32780	2637				14424													
		STD	0020	-0126	3332	2682	0012346		0031	14414													
		OBS	0020	-0126	33320	2682				14414													
		STD	0030	-0130	3345	2693	0011331		0043	14416													
		OBS	0030	-0130	33450	2693				14416													
		STD	0050	-0127	3352	2698	0010791		0065	14422													
		OBS	0050	-0127	33520	2698				14422													
		STD	0075	-0112	3360	2704	0010211		0091	14434													
		OBS	0075	-0112	33600	2704				14434													
		STD	0100	-0146	3364	2709	0009785		0116	14423													
		OBS	0100	-0146	33640	2709				14423													
		STD	0125	-0105	3378	2719	0008833		0140	14448													
		OBS	0125	-0105	33780	2719				14448													
		STD	0150	-0026	3386	2722	0008544		0161	14490													
		OBS	0150	-0026	33860	2722				14490													
		STD	0200	0067	3405	2732	0007603		0202	14543													
		OBS	0200	0067	34050	2732				14543													
		STD	0250	0191	3429	2743	0006671		0237	14610													
		OBS	0250	0191	34290	2743				14610													
		STD	0300	0208	3439	2750	0006076		0269	14627													
		OBS	0300	0208	34390	2750				14627													
		STD	0400	0232	3450	2757	0005502		0327	14656													
		OBS	0400	0232	34500	2757				14656													
		STD	0500	0191	3451	2761	0005117		0380	14655													
		OBS	0500	0191	34510	2761				14655													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER						
CTRY CODE	IO. NO.						10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE	AMT			
318160	WE	75330N	070390W	260	50	10	01	163	1969	WE2	080	0530						02	6	8	0080						
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
						DT	S	22	S06	152	-011	-017	7	14													
MESSENGR TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD									
163		STD	0000	-0086	3282	2640	0016314		0000	14423																	
		OBS	0000	-0086	32820	2640				14423																	
		STD	0010	-0090	3295	2651	0015299		0016	14424																	
		OBS	0010	-0090	32950	2651				14424																	
		STD	0020	-0080	3325	2675	0013028		0030	14435																	
		OBS	0020	-0080	33250	2675				14435																	
		STD	0030	-0092	3340	2688	0011833		0042	14433																	
		OBS	0030	-0092	33400	2688				14433																	
		STD	0050	-0107	3348	2695	0011160		0065	14431																	
		OBS	0050	-0107	33480	2695				14431																	
		STD	0075	-0110	3358	2703	0010371		0092	14435																	
		OBS	0075	-0110	33580	2703				14435																	
		STD	0100	-0046	3372	2712	0009535		0117	14471																	
		OBS	0100	-0046	33720	2712				14471																	
		STD	0125	0015	3386	2720	0008754		0140	14505																	
		OBS	0125	0015	33860	2720				14505																	
		STD	0150	0090	3395	2723	0008502		0162	14544																	
		OBS	0150	0090	33950	2723				14544																	
		STD	0200	0153	3414	2734	0007499		0202	14583																	
		OBS	0200	0153	34140	2734				14583																	
		STD	0250	0155	3425	2743	0006697		0237	14594																	
		OBS	0250	0155	34250	2743				14594																	
		STD	0300	0182	3435	2749	0006167		0269	14615																	
		OBS	0300	0182	34350	2749				14615																	
		STD	0400	0220	3449	2757	0005472		0327	14651																	
		OBS	0400	0220	34490	2757				14651																	
		STD	0500	0163	3450	2762	0004957		0380	14642																	
		OBS	0500	0163	34500	2762				14642																	

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER							
CTRY CODE	IO. NO.	10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR.	HGT	PER	SEA	TYPE	AMT													
318160	WE	75410N	070040W	260	50	10	01	175	1969	WE2	081	0530					02	6	8	0081							
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
						DT	S	22	S06	151	-011	-017	7	14													
MESSENGR TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO ₂ -N $\mu\text{g} \cdot \text{at/l}$	NO ₃ -N $\mu\text{g} \cdot \text{at/l}$	SiO ₄ -Si $\mu\text{g} \cdot \text{at/l}$	pH	CTD									
175		STD	0000	-0089	3272	2633	0017071		0000	14420																	
		OBS	0000	-0089	32720	2633				14420																	
		STD	0010	-0098	3275	2635	0016807		0017	14418																	
		OBS	0010	-0098	32750	2635				14418																	
		STD	0020	-0080	3307	2660	0014407		0033	14432																	
		OBS	0020	-0080	33070	2660				14432																	
		STD	0030	-0114	3335	2684	0012145		0046	14422																	
		OBS	0030	-0114	33350	2684				14422																	
		STD	0050	-0133	3346	2694	0011233		0069	14418																	
		OBS	0050	-0133	33460	2694				14418																	
		STD	0075	-0122	3360	2705	0010179		0096	14429																	
		OBS	0075	-0122	33600	2705				14429																	
		STD	0100	-0050	3375	2714	0009289		0120	14469																	
		OBS	0100	-0050	33750	2714				14469																	
		STD	0125	0013	3385	2719	0008819		0143	14504																	
		OBS	0125	0013	33850	2719				14504																	
		STD	0150	0080	3398	2726	0008212		0164	14540																	
		OBS	0150	0080	33980	2726				14540																	
		STD	0200	0130	3413	2735	0007411		0203	14573																	
		OBS	0200	0130	34130	2735				14573																	
		STD	0250	0170	3427	2743	0006659		0238	14601																	
		OBS	0250	0170	34270	2743				14601																	
		STD	0300	0183	3434	2748	0006250		0271	14616																	
		OBS	0300	0183	34340	2748				14616																	
		STD	0400	0184	3449	2760	0005168		0328	14635																	
		OBS	0400	0184	34490	2760				14635																	
		STD	0500	0130	3449	2764	0004767		0377	14627																	
		OBS	0500	0130	34490	2764				14627																	

TABLE III.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.	CODE	" 1/10	" 1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318160	WE		75480N	069430W		259	59	10	01	187	1969	WE2	082	0450						02	6	8	0082
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	20	S08	150	-017	-025	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	-0075	3290	2647	0015737		0000	14429													
187		OBS	0000	-0075	32900	2647				14429													
		STD	0010	-0082	3295	2651	0015325		0016	14428													
		OBS	0010	-0082	32950	2651				14428													
		STD	0020	-0067	3320	2670	0013458		0030	14440													
		OBS	0020	-0067	33200	2670				14440													
		STD	0030	-0066	3350	2695	0011161		0042	14447													
		OBS	0030	-0066	33500	2695				14447													
		STD	0050	-0052	3361	2703	0010367		0064	14458													
		OBS	0050	-0052	33610	2703				14458													
		STD	0075	-0021	3370	2709	0009806		0089	14478													
		OBS	0075	-0021	33700	2709				14478													
		STD	0100	-0048	3375	2714	0009297		0113	14470													
		OBS	0100	-0048	33750	2714				14470													
		STD	0125	0040	3392	2724	0008432		0135	14517													
		OBS	0125	0040	33920	2724				14517													
		STD	0150	0085	3399	2727	0008167		0156	14542													
		OBS	0150	0085	33990	2727				14542													
		STD	0200	0142	3419	2739	0007042		0194	14579													
		OBS	0200	0142	34190	2739				14579													
		STD	0250	0169	3428	2744	0006576		0228	14600													
		OBS	0250	0169	34280	2744				14600													
		STD	0300	0200	3440	2751	0005935		0259	14624													
		OBS	0300	0200	34400	2751				14624													
		STD	0400	0180	3449	2760	0005135		0314	14633													
		OBS	0400	0180	34490	2760				14633													

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.	CODE	" 1/10	" 1/10		10"	1"	MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318160	WE		75500N	068500W		259	58	10	01	205	1969	WE2	083	0310						02	6	8	0083
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	DRY BULB	WET BULB											
						DT	S	20	S08	150	-015	-025	7	12									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_{θ}		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	-0055	3285	2642	0016191		0000	14438													
205		OBS	0000	-0055	32850	2642				14438													
		STD	0010	-0058	3282	2639	0016404		0016	14438													
		OBS	0010	-0058	32820	2639				14438													
		STD	0020	-0058	3298	2652	0015175		0032	14441													
		OBS	0020	-0058	32980	2652				14441													
		STD	0030	-0036	3336	2682	0012350		0046	14459													
		OBS	0030	-0036	33360	2682				14459													
		STD	0050	-0029	3347	2691	0011533		0070	14467													
		OBS	0050	-0029	33470	2691				14467													
		STD	0075	-0018	3358	2699	0010735		0098	14477													
		OBS	0075	-0018	33580	2699				14477													
		STD	0100	-0010	3369	2708	0009928		0123	14487													
		OBS	0100	-0010	33690	2708				14487													
		STD	0125	0022	3380	2715	0009247		0147	14507													
		OBS	0125	0022	33800	2715				14507													
		STD	0150	0060	3390	2721	0008698		0170	14530													
		OBS	0150	0060	33900	2721				14530													
		STD	0200	0134	3410	2732	0007666		0211	14574													
		OBS	0200	0134	34100	2732				14574													
		STD	0250	0168	3422	2739	0007021		0247	14599													
		OBS	0250	0168	34220	2739				14599													
		STD	0300	0180	3426	2742	0006830		0282	14613													
		OBS	0300	0180	34260	2742				14613													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEATHER CODE		CLOUD CODES		NOCC STATION NUMBER									
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./1/10	CRUISE NO.		STATION NUMBER	DIR	HGT	PER	SEA	TYPE	AMT											
318160		WE	75328N	069285W	259	59	10	02	083	1969	WE2	085	0470						72	7	8	0085									
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS															
						COLOR CODE	TRANS. (m)	OIL	SPEED OF FORCE	(mbars)	DRY BULB	WET BULB																			
						OT	S	12	S18	134	-011	-021	8	13																	
MESSAGE TIME & NR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME AND MALT-SIB*		Σ Δ D DYN. M. X 10 ³		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH												
083		STD	0000	-0090	3290	2647		0015688		0000		14422																			
		OBS	0000	-0090	32900	2647						14422																			
		STD	0010	-0093	3293	2650		0015442		0016		14423																			
		OBS	0010	-0093	32930	2650						14423																			
		STD	0020	-0087	3325	2675		0013004		0030		14432																			
		OBS	0020	-0087	33250	2675						14432																			
		STD	0030	-0090	3339	2687		0011917		0042		14434																			
		OBS	0030	-0090	33390	2687						14434																			
		STD	0050	-0115	3350	2696		0010981		0065		14427																			
		OBS	0050	-0115	33500	2696						14427																			
		STD	0075	-0100	3362	2706		0010099		0091		14440																			
		OBS	0075	-0100	33620	2706						14440																			
		STD	0100	-0038	3374	2713		0009417		0116		14475																			
		OBS	0100	-0038	33740	2713						14475																			
		STD	0125	0037	3386	2719		0008872		0139		14515																			
		OBS	0125	0037	33860	2719						14515																			
		STD	0150	0065	3394	2724		0008424		0160		14533																			
		OBS	0150	0065	33940	2724						14533																			
	STD	0200	0144	3410	2731		0007737		0201		14579																				
	OBS	0200	0144	34100	2731						14579																				
	STD	0250	0172	3427	2743		0006675		0237		14602																				
	OBS	0250	0172	34270	2743						14602																				
	STD	0300	0186	3436	2749		0006124		0269		14617																				
	OBS	0300	0186	34360	2749						14617																				
	STD	0400	0230	3449	2756		0005559		0327		14655																				
	OBS	0400	0230	34490	2756						14655																				

TABLE III.--Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
318160	WE	75250N	069480W		259	59	10	02	095	1969	WE2	086	0540					72	7	8	0086
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	S	15	S17	125	-001	-012	8	14								
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C			
095		STD	0000	-0090	3281	2640	0016378		0000	14421											
		OBS	0000	-0090	32810	2640				14421											
		STD	0010	-0090	3300	2655	0014915		0016	14425											
		OBS	0010	-0090	33000	2655				14425											
		STD	0020	-0090	3329	2679	0012688		0029	14431											
		OBS	0020	-0090	33290	2679				14431											
		STD	0030	-0091	3346	2692	0011377		0041	14434											
		OBS	0030	-0091	33460	2692				14434											
		STD	0050	-0090	3353	2698	0010835		0064	14439											
		OBS	0050	-0090	33530	2698				14439											
		STD	0075	-0146	3363	2708	0009877		0090	14418											
		OBS	0075	-0146	33630	2708				14418											
		STD	0100	-0129	3366	2710	0009683		0114	14431											
		OBS	0100	-0129	33660	2710				14431											
		STD	0125	-0090	3382	2721	0008583		0137	14456											
		OBS	0125	-0090	33820	2721				14456											
		STD	0150	0006	3390	2724	0008399		0158	14505											
		OBS	0150	0006	33900	2724				14505											
		STD	0200	0151	3419	2738	0007107		0197	14583											
		OBS	0200	0151	34190	2738				14583											
		STD	0250	0201	3434	2746	0006374		0231	14615											
		OBS	0250	0201	34340	2746				14615											
		STD	0300	0228	3442	2751	0006018		0262	14637											
		OBS	0300	0228	34420	2751				14637											
		STD	0400	0231	3450	2757	0005493		0319	14656											
		OBS	0400	0231	34500	2757				14656											
		STD	0500	0202	3453	2762	0005062		0372	14660											
		OBS	0500	0202	34530	2762				14660											

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA	TYPE	AMT	
318160	WE	75170N	068240W		259	58	10	02	116	1969	WE2	087	0470					72	7	8	0087
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
					DT	S	14	S05	130	-011	-011	5	13								
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO ₂ -N $\mu\text{g} - \text{dl/l}$	NO ₃ -N $\mu\text{g} - \text{dl/l}$	Si O ₄ -Si $\mu\text{g} - \text{dl/l}$	pH	S C C			
116		STD	0000	-0100	3256	2620	0018265		0000	14413											
		OBS	0000	-0100	32560	2620				14413											
		STD	0010	-0095	3268	2629	0017353		0018	14418											
		OBS	0010	-0095	32680	2629				14418											
		STD	0020	-0092	3284	2642	0016130		0035	14424											
		OBS	0020	-0092	32840	2642				14424											
		STD	0030	-0092	3322	2673	0013212		0049	14431											
		OBS	0030	-0092	33220	2673				14431											
		STD	0050	-0102	3340	2688	0011789		0074	14432											
		OBS	0050	-0102	33400	2688				14432											
		STD	0075	-0127	3352	2698	0010776		0102	14426											
		OBS	0075	-0127	33520	2698				14426											
		STD	0100	-0109	3360	2704	0010208		0129	14440											
		OBS	0100	-0109	33600	2704				14440											
		STD	0125	-0023	3375	2713	0009403		0153	14486											
		OBS	0125	-0023	33750	2713				14486											
		STD	0150	0016	3384	2718	0008908		0176	14509											
		OBS	0150	0016	33840	2718				14509											
		STD	0200	0113	3405	2730	0007900		0218	14564											
		OBS	0200	0113	34050	2730				14564											
		STD	0250	0174	3420	2737	0007218		0256	14602											
		OBS	0250	0174	34200	2737				14602											
		STD	0300	0199	3428	2742	0006831		0291	14622											
		OBS	0300	0199	34280	2742				14622											
		STD	0400	0203	3449	2758	0005326		0352	14643											
		OBS	0400	0203	34490	2758				14643											

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160		WE	75260N	068110W	259	58	10	02	148	1969	WE2	088	0300						01	7	8	0088
		WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULE	WET RULE														
		DT	S	10	S08	128	-033	-022	9	11												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2197	Σ Δ σ _t OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH						
148		STD	0000	-0090	3270	2631	0017221	0000	14419													
		OBS	0000	-0090	32700	2631			14419													
		STD	0010	-0095	3270	2631	0017200	0017	14419													
		OBS	0010	-0095	32700	2631			14419													
		STD	0020	-0088	3295	2651	0015300	0033	14427													
		OBS	0020	-0088	32950	2651			14427													
		STD	0030	-0089	3325	2675	0012992	0048	14432													
		OBS	0030	-0089	33250	2675			14432													
		STD	0050	-0122	3352	2698	0010806	0071	14424													
		OBS	0050	-0122	33520	2698			14424													
		STD	0075	-0080	3360	2703	0010324	0098	14449													
		OBS	0075	-0080	33600	2703			14449													
		STD	0100	-0098	3370	2712	0009482	0123	14446													
		OBS	0100	-0098	33700	2712			14446													
	STD	0125	0010	3386	2720	0008728	0145	14502														
	OBS	0125	0010	33860	2720			14502														
	STD	0150	0065	3393	2723	0008500	0167	14533														
	OBS	0150	0065	33930	2723			14533														
	STD	0200	0140	3413	2734	0007482	0207	14577														
	OBS	0200	0140	34130	2734			14577														
	STD	0250	0190	3429	2743	0006664	0242	14610														
	OBS	0250	0190	34290	2743			14610														

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEATHER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
318160		WE	75356N	067580W	259	57	10	02	159	1969	WE2	089	0290						01	7	8	0089
		WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY RULE	WET RULE														
		DT	S	10	S08	128	-033	-022	9	11												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2197	Σ Δ σ _t OYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P µg - ml/l	TOTAL-P µg - ml/l	NO ₂ -N µg - ml/l	NO ₃ -N µg - ml/l	SiO ₄ -Si µg - ml/l	pH						
159		STD	0000	-0077	3280	2639	0016497	0000	14427													
		OBS	0000	-0077	32800	2639			14427													
		STD	0010	-0079	3285	2643	0016101	0016	14428													
		OBS	0010	-0079	32850	2643			14428													
		STD	0020	-0082	3287	2644	0015933	0032	14429													
		OBS	0020	-0082	32870	2644			14429													
		STD	0030	-0065	3335	2683	0012312	0046	14445													
		OBS	0030	-0065	33350	2683			14445													
		STD	0050	-0105	3350	2696	0011013	0070	14432													
		OBS	0050	-0105	33500	2696			14432													
		STD	0075	-0080	3360	2703	0010324	0096	14449													
		OBS	0075	-0080	33600	2703			14449													
		STD	0100	-0030	3370	2709	0009758	0122	14478													
		OBS	0100	-0030	33700	2709			14478													
		STD	0125	0030	3382	2716	0009138	0145	14511													
		OBS	0125	0030	33820	2716			14511													
		STD	0150	0084	3394	2723	0008540	0167	14541													
		OBS	0150	0084	33940	2723			14541													
	STD	0200	0152	3416	2736	0007341	0207	14583														
	OBS	0200	0152	34160	2736			14583														
	STD	0250	0187	3428	2743	0006715	0242	14608														
	OBS	0250	0187	34280	2743			14608														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	TYPE	
318160		WE	75452N	067443W		259	57	10	02	169	1969	WE2	090		0220					01	7 7	0090
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIL CODE										
						DT	S	10	S08	128	-017	-022	9	10								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	ST C					
169	STD	0000	0000	-0038	3281	2638	0016561	0000	14445													
	OBS	0000	0000	-0038	32810	2638			14445													
	STD	0010	0010	-0044	3282	2639	0016457	0017	14444													
	OBS	0010	0010	-0044	32820	2639			14444													
	STD	0020	0020	-0046	3283	2640	0016368	0033	14445													
	OBS	0020	0020	-0046	32830	2640			14445													
	STD	0030	0030	-0035	3300	2653	0015107	0049	14454													
	OBS	0030	0030	-0035	33000	2653			14454													
	STD	0050	0050	-0028	3321	2670	0013523	0077	14463													
	OBS	0050	0050	-0028	33210	2670			14463													
	STD	0075	0075	-0030	3350	2693	0011292	0108	14471													
	OBS	0075	0075	-0030	33500	2693			14471													
	STD	0100	0100	-0012	3362	2702	0010452	0135	14485													
	OBS	0100	0100	-0012	33620	2702			14485													
	STD	0125	0125	0031	3374	2710	0009752	0161	14510													
	OBS	0125	0125	0031	33740	2710			14510													
	STD	0150	0150	0050	3383	2716	0009172	0184	14524													
	OBS	0150	0150	0050	33830	2716			14524													
	STD	0200	0200	0102	3398	2725	0008357	0228	14558													
	OBS	0200	0200	0102	33980	2725			14558													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS. INDIC.	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER		SEA	TYPE	
318160		WE	75490N	072530W		260	52	09	25	089	1969	WE2	00A		0360					68	6 8	0091
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIL CODE										
						DT	S	14	S08	051	000	-002	9	12								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ _t ?	Σ Δ D DYN. M. X 10 ³	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P μg - ml/l	TOTAL-P μg - ml/l	NO ₂ -N μg - ml/l	NO ₃ -N μg - ml/l	SiO ₄ -Si μg - ml/l	pH	ST C					
089	STD	0000	0000	-0020	3260	2620	0018239	0000	14450													
	OBS	0000	0000	-0020	32600	2620			14450													
	STD	0010	0010	-0030	3262	2622	0018042	0018	14448													
	OBS	0010	0010	-0030	32620	2622			14448													
	STD	0020	0020	-0040	3310	2661	0014326	0034	14451													
	OBS	0020	0020	-0040	33100	2661			14451													
	STD	0030	0030	-0075	3335	2683	0012276	0048	14440													
	OBS	0030	0030	-0075	33350	2683			14440													
	STD	0050	0050	-0105	3354	2699	0010707	0071	14432													
	OBS	0050	0050	-0105	33540	2699			14432													
	STD	0075	0075	-0110	3365	2708	0009835	0096	14436													
	OBS	0075	0075	-0110	33650	2708			14436													
	STD	0100	0100	-0040	3378	2716	0009103	0120	14474													
	OBS	0100	0100	-0040	33780	2716			14474													
	STD	0125	0125	-0010	3390	2724	0008322	0142	14494													
	OBS	0125	0125	-0010	33900	2724			14494													
	STD	0150	0150	-0056	3392	2728	0007950	0162	14477													
	OBS	0150	0150	-0056	33920	2728			14477													
	STD	0200	0200	-0028	3408	2740	0006848	0199	14500													
	OBS	0200	0200	-0028	34080	2740			14500													
	STD	0250	0250	-0018	3418	2747	0006129	0232	14515													
	OBS	0250	0250	-0018	34180	2747			14515													
	STD	0300	0300	-0010	3427	2754	0005480	0261	14528													
	OBS	0300	0300	-0010	34270	2754			14528													

TABLE III.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER														
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT															
														WATER	WIND					BARO- METER (mb)				AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																														
		DT	S	09	S15	045	-008	-011	9	12																											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C																				
318160	WE	7600N	073300W	260	63	09	25	102	1969	WE2	00B	0340						03	5	8		0092															
																							STO	0000	-0068	3270	2630	0017294	0000	14430							
																							OBS	0000	-0068	32700	2630			14430							
																							STO	0010	-0070	3270	2630	0017281	0017	14430							
																							OBS	0010	-0070	32700	2630			14430							
																							STO	0020	-0073	3270	2630	0017265	0035	14430							
																							OBS	0020	-0073	32700	2630			14430							
																							STO	0030	-0080	3310	2663	0014172	0050	14434							
																							OBS	0030	-0080	33100	2663			14434							
																							STO	0050	-0116	3332	2682	0012357	0077	14424							
																							OBS	0050	-0116	33320	2682			14424							
																							STO	0075	-0111	3352	2698	0010627	0106	14433							
																							OBS	0075	-0111	33520	2698			14433							
																							STO	0100	-0100	3363	2706	0010010	0132	14444							
																							OBS	0100	-0100	33630	2706			14444							
																							STO	0125	-0084	3373	2714	0009294	0156	14457							
																							OBS	0125	-0084	33730	2714			14457							
STO	0150	-0075	3380	2719	0008785	0179	14466																														
OBS	0150	-0075	33800	2719			14466																														
STO	0200	0037	3407	2736	0007272	0219	14530																														
OBS	0200	0037	34070	2736			14530																														
STO	0250	-0015	3416	2746	0006296	0253	14516																														
OBS	0250	-0015	34160	2746			14516																														
STO	0300	0020	3423	2750	0005954	0283	14541																														
OBS	0300	0020	34230	2750			14541																														

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSSEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER														
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT															
														WATER	WIND					BARO- METER (mb)				AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																														
		DT	S	09	S12	045	-008	-011	9	12																											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C																				
318160	WE	76075N	073150W	260	63	09	25	117	1969	WE2	00C	0340						03	5	8		0093															
																							STO	0000	-0090	3270	2631	0017221	0000	14419							
																							OBS	0000	-0090	32700	2631			14419							
																							STO	0010	-0094	3272	2633	0017050	0017	14419							
																							OBS	0010	-0094	32720	2633			14419							
																							STO	0020	-0097	3273	2634	0016957	0034	14420							
																							OBS	0020	-0097	32730	2634			14420							
																							STO	0030	-0082	3310	2663	0014165	0050	14434							
																							OBS	0030	-0082	33100	2663			14434							
																							STO	0050	-0096	3336	2684	0012116	0076	14434							
																							OBS	0050	-0096	33360	2684			14434							
																							STO	0075	-0120	3352	2698	0010798	0105	14429							
																							OBS	0075	-0120	33520	2698			14429							
																							STO	0100	-0090	3370	2712	0009511	0130	14450							
																							OBS	0100	-0090	33700	2712			14450							
																							STO	0125	-0073	3380	2719	0008803	0153	14463							
																							OBS	0125	-0073	33800	2719			14463							
STO	0150	-0022	3390	2725	0008259	0174	14492																														
OBS	0150	-0022	33900	2725			14492																														
STO	0200	-0060	3412	2744	0006392	0211	14486																														
OBS	0200	-0060	34120	2744			14486																														
STO	0250	-0048	3420	2750	0005826	0241	14501																														
OBS	0250	-0048	34200	2750			14501																														
STO	0300	-0015	3426	2754	0005529	0270	14526																														
OBS	0300	-0015	34260	2754			14526																														

REFERENCE		SNIP CODE	LATITUDE ° 1°/10	LONGITUDE ° 1°/10	DRIFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318160		WE	76075N	073150W		260	63	09	25	117	1969	WE2	00C	0340						03	5	8	0093
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	S	09	S12	045	-008	-011	9	12									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- σ_t		$\Sigma \Delta$ D DYN. M. $\times 10^3$		SOUND VELOCITY	O ₂ ml/l	PO ₄ -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO ₃ -N $\mu\text{g} - \text{at/l}$	NO ₂ -N $\mu\text{g} - \text{at/l}$	SiO ₄ -Si $\mu\text{g} - \text{at/l}$	pH	S C			
117		STO	0000	-0090	3270	2631		0017221		0000		14419											
		OBS	0000	-0090	32700	2631						14419											
		STO	0010	-0094	3272	2633		0017050		0017		14419											
		OBS	0010	-0094	32720	2633						14419											
		STO	0020	-0097	3273	2634		0016957		0034		14420											
		OBS	0020	-0097	32730	2634						14420											
		STO	0030	-0082	3310	2663		0014165		0050		14434											
		OBS	0030	-0082	33100	2663						14434											
		STO	0050	-0096	3336	2684		0012116		0076		14434											
		OBS	0050	-0096	33360	2684						14434											
		STO	0075	-0120	3352	2698		0010798		0105		14429											
		OBS	0075	-0120	33520	2698						14429											
		STO	0100	-0090	3370	2712		0009511		0130		14450											
		OBS	0100	-0090	33700	2712						14450											
		STO	0125	-0073	3380	2719		0008803		0153		14463											
		OBS	0125	-0073	33800	2719						14463											
		STO	0150	-0022	3390	2725		0008259		0174		14492											
	OBS	0150	-0022	33900	2725						14492												
	STO	0200	-0060	3412	2744		0006392		0211		14486												
	OBS	0200	-0060	34120	2744						14486												
	STO	0250	-0048	3420	2750		0005826		0241		14501												
	OBS	0250	-0048	34200	2750						14501												
	STO	0300	-0015	3426	2754		0005529		0270		14526												
	OBS	0300	-0015	34260	2754						14526												

TABLE III.—Continued

REFERENCE	SHIP ID. NO.	SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	NDDC MOOSE	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
318160	WE		76165N	072390W		260	62	09	25	131	1969	WE2	000	0440						03	5	8	0094	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	METER (mb)	DRY BULB	WET BULB												
						01	5	12	S25	055	-008	-011	9	13										
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- σ_t	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	D ₂ ml/l	PD ₄ -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	ND ₂ -N $\mu g - at/l$	ND ₃ -N $\mu g - at/l$	SiO ₄ -Si $\mu g - at/l$	pH	S CLO							
131		STD	0000	-0080	3275	2635	0016870	0000	14425															
		OBS	0000	-0080	32750	2635			14425															
		STD	0010	-0080	3276	2635	0016788	0017	14426															
		OBS	0010	-0080	32760	2635			14426															
		STD	0020	-0083	3277	2636	0016696	0034	14427															
		OBS	0020	-0083	32770	2636			14427															
		STD	0030	-0072	3321	2671	0013358	0049	14440															
		OBS	0030	-0072	33210	2671			14440															
		STD	0050	-0082	3342	2689	0011705	0074	14441															
		OBS	0050	-0082	33420	2689			14441															
		STD	0075	-0096	3356	2701	0010572	0102	14441															
		OBS	0075	-0096	33560	2701			14441															
		STD	0100	-0079	3377	2717	0009018	0126	14456															
		OBS	0100	-0079	33770	2717			14456															
		STD	0125	-0046	3384	2721	0008612	0148	14476															
		OBS	0125	-0046	33840	2721			14476															
		STD	0150	-0013	3394	2728	0007998	0169	14497															
		OBS	0150	-0013	33940	2728			14497															
		STD	0200	-0024	3405	2737	0007096	0207	14502															
		OBS	0200	-0024	34050	2737			14502															
		STD	0250	-0038	3417	2748	0006103	0240	14505															
		OBS	0250	-0038	34170	2748			14505															
		STD	0300	-0030	3423	2752	0005677	0269	14518															
		OBS	0300	-0030	34230	2752			14518															
		STD	0400	-0032	3431	2759	0005040	0323	14535															
		OBS	0400	-0032	34310	2759			14535															

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